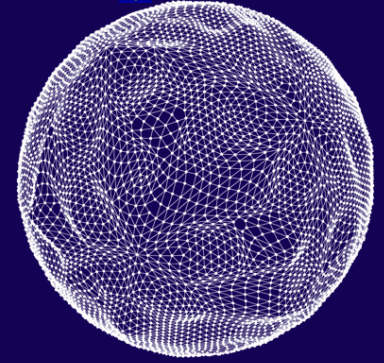




Developing breakthrough technologies for science and society



D1.1. Report on Rules and regulations of the Open Call, including also the ones of the Student projects and the Socio-Economic Study, and submission and evaluation

Name of the project:

ATTRACT₂

Grant Agreement contract number:

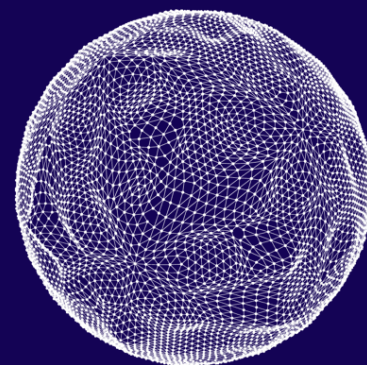
GA- 101004462

Date:

11/06/2021



Developing breakthrough technologies for
science and society



ATTRACT2

Guide for Applicants

ATTRACT Phase 2 Thematic Open Call

Submission of R&D&I Proposals



ATTRACT Phase-2 Thematic Open Call – Call for Project Proposals

This ATTRACT Phase 2 Call offers a unique opportunity for scaling breakthrough innovation in detection and imaging technologies.

Following the European Commission call, text *INFRAINNOV-03-2020: Co-Innovation platform for research infrastructure technologies*¹, the ATTRACT phase 2 call focuses on the most promising outcomes of the past pilot action² as well as on other valuable opportunities of exploitation of research infrastructure technologies for industrial applications, to further support their development and substantially raise their Technology Readiness Level (“TRL”)³. These opportunities should have breakthrough potential across Europe, be feasible and scalable, as well as exploitable for industrial applications having societal value.

Therefore, interested legal entities are invited to submit proposals for projects in the frame of the themes specified in the Annex 2 to this Guide for Applicants.

ATTRACT

The goal of ATTRACT is to establish a systematic framework to transform breakthrough technologies, developed for fundamental research purposes, into breakthrough innovations that can be turned into sound industrial applications and provide added value for society.

ATTRACT has been initiated by nine public European organisations (the ATTRACT Consortium):

- European Organization for Nuclear Research (CERN),
- Aalto Korkeakoulusaatio (AALTO),
- ESADE Ramon Llull University (ESADE),
- European Synchrotron Radiation Facility (ESRF),
- European X-Ray Free-electron Laser GmbH (European XFEL),
- European Molecular Biology Laboratory (EMBL),
- European Southern Observatory (ESO),
- Institut Max von Laue – Paul Langevin (ILL),
- European Industrial Research Management Association (EIRMA).

CERN is the ATTRACT Coordinator.

More information on ATTRACT Phase 2 and the ATTRACT Consortium can be found at <https://attract-eu.com/>

In the frame of ATTRACT, breakthrough innovations are considered to be highly novel technology concepts, or combinations of existing technology concepts that lead to a significant increase of their performance or of their usability with respect to existing ones. They also have the potential to create an entirely new range of applications and markets that can change our society.

The ATTRACT Phase 2 Call targets the scientific and industrial scale up of the technologies under the previously referred themes as well as encourages the deployment of demonstration of the use of the technologies for addressing societal challenges⁴.

¹<https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/infrainnov-03-2020:freeTextSearchKeyword=:typeCodes=1:statusCodes=31094502:programCode=H2020:programDivisionCode=31047836:focusAreaCode=null:crossCuttingPriorityCode=null:callCode=Default:sortQuery=openingDate:orderBy=asc:onlyTenders=false:topicListKey=topicSearchTablePageState>

² <https://attract-eu.com/>

³ https://ec.europa.eu/research/participants/data/ref/h2020/other/wp/2016_2017/annexes/h2020-wp1617-annex-g-trl_en.pdf

⁴ For example: <https://sustainabledevelopment.un.org/?menu=1300>

Applying organisations should show in the proposal their co-innovation connections with Research Infrastructures in Europe, industry as well as other organisations that ensure demonstration cases related to the use and deployment of the scaled up technologies.

European Union funding

ATTRACT Phase 2 receives funding under the European Union's Horizon 2020 Research and Innovation programme under the Horizon 2020 grant agreement XXXX However, it should be noted that the European Union is not involved in the management and implementation of the ATTRACT Phase 2 Call.

The ATTRACT Phase 2 call should be read in conjunction with the following documents:

- ATTRACT Phase 2 Third-Party Project Agreement
- Grant Agreement 101004462⁵
- ATTRACT Phase 2 Call Proposal Template
- ATTRACT Phase 2 Call Evaluation Criteria

PART 1 – Participation Criteria and Administrative Support

A. Participation criteria

Participation in the ATTRACT Phase 2 Call is **open to all legal entities** which have their corporate headquarters in EU or H2020-Associated Countries⁶.

- Participation is subject to each legal entity having a **validated Participant Identification Code (PIC)**, granted by the European Commission under its registration process at <https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/how-to-participate/participant-register>, **at the time of the signature of the ATTRACT Phase 2 Third-Party Agreement.**

In the event that at the time of the launch of the ATTRACT Phase 2 Call a legal entity does not yet have a PIC, it is advised to immediately start the process of obtaining such PIC from the European Commission⁷. Please note that the process for obtaining a validated PIC may take up to three months.

- The ATTRACT Phase 2 Call will accept proposals for the development of technologies to be used for peaceful purposes only.
- Project proposals shall be submitted as a **joint proposal** by a group of at least two independent legal entities (group of participants). The same group of participants may not submit more than one project proposal. However, a legal entity may participate in more than one proposal across the above themes and below modalities.

Each group of participants is free to organise itself in a manner it deems appropriate. However, it shall in all cases designate and mandate a lead participant which shall be authorised by all participants to act in their name and on their behalf as regards the:

- Submission of the project proposal.

⁵ Provided as a separate document to Guide for Applicants.

⁶ http://ec.europa.eu/research/participants/data/ref/h2020/grants_manual/hi/3cpart/h2020-hi-3cpart_en.pdf

⁷ <https://ec.europa.eu/research/participants/portal/desktop/en/support/faqs/faq-1055.html>

- Signature of the ATTRACT Phase 2 Third-Party Project Agreement.⁸
- All matters arising out of and relating to the ATTRACT Phase 2 Third-Party Project Agreement.

The lead participant shall have the authority to bind all participants and shall act as the sole intermediary between the other group participants and the ATTRACT Coordinator, as established in the power of attorney to be completed and signed by each group participant member. The power of attorney⁹ must be included as an annex of the proposal at the time of its submission.

Project proposals by groups of participants which do not meet the above participation criteria will not be evaluated.

B. Project proposal length and format

- Project proposals shall use the ATTRACT Phase 2 proposal template¹⁰.
- Project proposals shall be a maximum of 20 A4 pages in length, not including the title page, the public summary and the powers of attorney. Scientific or Technical Annexes are not allowed.
- The font type shall be Times New Roman with a minimum font size of 11.
- The page margins shall be 1.5 cm on all sides.
- Line spacing shall be 1.5 lines.

Project proposals which do not comply with the length, font size and format conditions will not be evaluated.

C. Proposal content

Project proposals must comply with the ATTRACT Phase 2 Proposal Template and include clear deliverables and milestones against a timeline as well as an overall financial breakdown for the costs of the project.

Project proposals may be submitted in any of the two modalities listed below:

Modality A: Demonstrator (up to 500,000 Euros)

Proposals in this modality are at a TRL of 3 or higher and are capable of proving at the end of the project a TRL of 5 or 6, understood as:

- TRL 5 – technology module¹¹ **validated** in relevant scientific and industrial environment(s).
- TRL 6 – technology module **demonstrated** in relevant scientific and industrial environment(s).

Consortia are encouraged to leverage on the most promising results of the previous pilot action¹² and to incorporate the necessary organization(s) in the project value chain for ensuring the achievement of the targeted TRL.

Modality B: Industrial System (up to 2,000,000 Euros)

⁸ <https://attract-eu.com/>

⁹ Provided as an annex to this Guide for Applicants.

¹⁰ <https://attract-eu.com/>

¹¹ A technology module is understood as a separate unit of software or hardware. Its typical characteristics include versatility, which allows it to be used in a variety of systems, and interoperability, which allows it to function with other components.

¹² <https://attract-eu.com/>

Proposals in this modality are currently at a TRL of 3 or higher and are capable of proving at the end of the project a TRL of 7 to 9, understood as:

TRL 7 – **system¹³ prototype demonstration in a real case** operational environment.

TRL 8 – **system complete and scientifically and industrially qualified.**

TRL 9 – **actual system proven in operational environment.**

Applicants to the **Modality B: Industrial System** are required to describe their foreseen pathway to market, the resources dedicated to this which must be complementary to the funding received from ATTRACT, as well as the estimated timeline¹⁴.

Common requirements for Modalities A and B

Consortia are encouraged to leverage on the most promising results of the previous pilot action¹⁵ and to incorporate the necessary organization(s) in the project value chain for ensuring the targeted TRL. Consortia are also encouraged to indicate in the proposal any complementary funding sources reflecting public and/or private commitment to the project technology deployment in the market.

Funding for a project applying will be granted upon successful selection under the procedure set out in this Call for Project Proposals and following the signature of the ATTRACT Phase 2 Third-Party Project Agreement (<https://attract-eu.com/>), which sets out the legal and financial conditions applicable to funded projects.

The funding must be used to generate, along with the deliverables specified in the proposal, the public deliverables set out in Part 4 – D. Public Deliverables and Dissemination, and may be used to cover associated travel costs. Costs incurred beyond the eligible funding granted for each project will not be reimbursed.

D. Link with student projects and socioeconomic study

The ATTRACT Consortium will facilitate Design Thinking projects with interdisciplinary teams of MSc level students with the goal of generating ideas for social innovation inspired by the technologies developed in the funded projects¹⁶. As well, the ATTRACT Consortium will facilitate the implementation of a socioeconomic study of the ATTRACT initiative.

Groups of participants in both modalities are required to nominate a knowledgeable person responsible for liaising with the student teams and their tutors in the event of selection for funding as well as for the scholars undertaking the socioeconomic study.

E. Project proposal submission process and deadline

Project proposals and the powers of attorney shall be submitted by the lead participant in one single PDF document, exclusively through the ATTRACT website habilitated for this purpose¹⁷.

Deadline for submission of the project proposals: September 20th 2021.

Please note that it will not be possible to upload project proposals after the deadline.

¹³ Systems are understood as sets of interconnected modules that transform, store, transport, or control materials, energy, and/or information for particular purposes.

¹⁴ See ATTRACT Phase 2 Call Proposal Template.

¹⁵ <https://attract-eu.com/>

¹⁶ <https://attract-eu.com/>

¹⁷ <https://attract-eu.com/>

Project proposals by participants submitted after the deadline or otherwise non-compliant with these Proposal Guidelines will not be evaluated.

Any personal data submitted as part of the proposals will be processed in accordance with the applicable legal frameworks.

F. Administrative support

Enquiries regarding administrative assistance during the submission process shall be raised exclusively with the ATTRACT Project Administrative Office (PAO) at at ATTRACT-PAO@cern.ch and/or questions@attract-eu.com.

PART 2 - Proposal Evaluation

A. Evaluation process, evaluation criteria and scoring

All project proposals received by the deadline will be evaluated in two steps, in a transparent and non-discriminatory manner:

Step 1: Compliance with the participation criteria and administrative instructions

Compliance of the participants and their project proposals with the participation criteria and administrative instructions set out will be evaluated by the PAO.

The PAO is composed of administrative staff of the ATTRACT Consortium members.

Proposals that do not meet the participation criteria, or do not comply with the prescribed administrative instructions, will not be evaluated as regards their contents.

Step 2: Evaluation of the contents of the project proposals

Project proposals that have successfully passed evaluation step 1 will proceed to step 2 in which their contents will be evaluated by the Independent R&D&I Scientific Committee (IC), in accordance with the criteria and the scoring modalities set out in the ATTRACT Phase 2 Call Evaluation Criteria.

The IC is composed of 13 top scientific and technical experts in the abovementioned domains who are independent from the ATTRACT Consortium members. The list of IC members and information about their fields of expertise can be found here: <https://attract-eu.com/>

Depending on the number of proposals received, the IC reserves the right to request the proposal participants for an oral presentation as part of the evaluation procedure. The IC may also make recommendations to improve the content of submitted proposals as well assess the adequacy of the requested budget recommending to the ATTRACT Consortium the maximum and minimum, funding for a proposal according to the two modalities of participation A or B.

C. Project proposal ranking

Based on the evaluation of each proposal, the IC will give a final score for each project (including any adjustments based on IC recommendations) and establish a ranking of the projects for funding.

D. Notification of results

Each ATTRACT Phase 2 Call lead participant of a group of participants will receive a notification, by email from the PAO, of the result of the IC evaluation within 3 months of the ATTRACT Phase 2 Call submission deadline.

The final list of funded proposals and their public executive summaries, including the names of the participants, will be made available on the ATTRACT Phase 2 website following the signature of the respective ATTRACT Phase 2 Third-Party Project Agreements.

By taking part in the ATTRACT Phase 2 Call, participants accept the outcome of the IC evaluation, including recommendations regarding the adjustment of selected proposals, as final and binding. Evaluation results, including the ranking for funding, cannot be contested.

Please note that the IC is not required to provide unsuccessful applicants with feedback regarding the evaluation.

PART 4 - ATTRACT Phase 2 Third-Party Agreement

Together with the notification of funding, the PAO will send to the lead participant of the group of participants the ATTRACT Phase 2 Third-Party Project Agreement. The ATTRACT Phase 2 Third-Party Project Agreement establishes the terms and conditions concerning the implementation of the project proposal by the respective groups of participants. **These terms and conditions are non-negotiable and must be accepted at the time of the submission of the project proposal as part of the ATTRACT Phase 2 Call.**

The lead participant shall sign the ATTRACT Phase 2 Third-Party Project Agreement on behalf of all group participants within 14 calendar days of receipt.

A. Project duration

Starting on January 2021, projects have duration of 26 months¹⁸.

B. Funding

Selected projects will be funded in accordance with the modality chosen by the applicants at the time of submission.

The grant amount will be transferred to the lead participant in accordance with the provisions established in the Third Party Project Agreement TPPA¹⁹.

C. Project monitoring

The PAO, in collaboration with the IC, will ensure that the following project monitoring actions are taken throughout the project duration.

- M6: 2-3 page “light report” (template to be provided), describing the technical progress, deliverables, milestones and expenditure to date, to be reviewed by experts from the ATTRACT

¹⁸ Subjected also the signature of the Third Party project Agreement (TPPA).

¹⁹ See this Guide for Applicants section ATTRACT Phase 2 Third Party Project Agreement.

Consortium members. Where the project involves a member of the ATTRACT Consortium, the review is carried out by the IC.

- M10: “Clinic session” with projects during a workshop on IPR-Tech transfer opportunities.
- M12: Interim evaluation: Each project will produce a 5-6 page report (template to be provided) describing the technical progress, achievements, encountered and potential technical/organisational/financial risks & mitigation thereof, management issues and ‘next steps’. The report will be assessed by the IC.

The group of participants and the IC will have a 1-hour session to elaborate and clarify any open issues from the report. The EC Project Officer will also be invited to this meeting.

Please note that the second payment will only be released in the event of a successful interim evaluation. If the IC identifies short-comings in a project, it will establish a timeline and deliverables for the group of participants to remedy these short-comings. The IC will subsequently re-evaluate the projects. If the group of participants does not remedy the short-comings within the set timeline, the project will be terminated and the funding will be stopped.

- M18: 2-3 page “light report” (template to be provided).
- M26: Final report (template to be provided) containing a full description of the activities and technical achievements related to the project, as well as a detailed budget justification. The ATTRACT Consortium will discuss this report with the EC.
- M41: “Clinic session” with projects during workshop at the pre-AFC conference.

D. Deliverables and presentation of funded projects

All funded projects are required to generate the following public deliverables:

1. A final project summary in PDF format of maximum 2000 characters, including spaces.
2. A poster and Power Point presentation (format to be announced at least two months prior to the ATTRACT Phase 2 Final Conference).
3. A “scientific journal-type” article summarizing the main project results and methodology used to achieve them.
4. A brief report on the activities carried out with the student projects (as set out in Part 1 – D. Link with student projects)

All funded projects are required to present their results at the ATTRACT Phase 2 Final Conference in Brussels. The dates will be announced well in advance by the ATTRACT Consortium.

In addition, projects are required to achieve the deliverables and milestones established in their proposals, against which they will be evaluated by the IC.

E. Open Access and dissemination of deliverables

All participants must ensure Open Access to any publications concerning their projects. Notwithstanding the potential necessity to protect any intellectual property rights in the deliverables produced by the participants, all participants agree to the dissemination of the deliverables, in whole or

in part, by the ATTRACT Consortium at the ATTRACT Phase 2 Final Conference in Brussels and beyond.

IMPORTANT NOTE ABOUT DOUBLE FUNDING

All applicants should be aware that if their project proposals or activities included therein are already receiving EU funding, they are not eligible for the ATTRACT Phase 2 Call.

In order to get more information about the double funding principle applicants should consult <http://ec.europa.eu/social/BlobServlet?docId=1922&langId=en>

The applicants bear full responsibility to ensure that no activity in the submitted project proposal is already receiving EU funding. The ATTRACT Consortium encourages the applicants to consult with the coordinators of the EU-funded projects that their organizations are benefiting from and/or the responsible persons within their respective organizations.

ATTRACT Phase 2 Call Proposal Template

Reminder: Project proposal length and format²⁰

- Project proposals shall use the ATTRACT Phase 2 proposal template.
- Project proposals shall be a maximum of 20 A4 pages, not including the title page and the public summary and the powers of attorney. Scientific or Technical Annexes are not allowed.
- The font type shall be Times New Roman with a minimum font size of 11.
- The page margins shall be 1.5 cm on all sides.
- Line spacing shall be 1.5 lines.

The following template must be adapted accordingly to comply with the margins and font size.

²⁰ See all the ATTRACT Phase 2 submission documentation at <https://attract-eu.com/>



Proposal Title and Acronym
(Indicate the proposal title and acronym)

This proposal responds to theme
(Indicate theme according to the ones mentioned in the ATTRACT Phase 2–Call for Proposals)

This proposal is submitted to modality
(Indicate the Modality, A or B, according to the ones mentioned in the ATTRACT Phase 2–Call for Proposals)

Coordinator’s name and email address
(Indicate the submitting author’s name and e-mail)

Consortium Composition Table

	Organization full name	Organization short name / PIC number	Organization type ²¹	Contact person name	Contact person email
Coordinator					
Partner 2					
Partner 3					
...					
...					

Project Public Summary

The project summary is limited to 3000 characters including spaces. It should contain the main objectives as well as a brief explanation of the breakthrough character of the project as compared to the state-of-the-art. In addition, it should include a brief explanation of the technology demonstration cases that the proposal addresses (e.g. technical, scientific applications).

²¹ Research Infrastructure, University, SME, Large Corporation, Research & Technology Organization, Start-up. If other, please specify.

1. Objectives (5 pages maximum)

This section should describe the main project objectives. Although not mandatory, it is highly encouraged to use the following table besides an explanatory text.

Main Project Objectives	Scientific	Industrial	Other	Brief Description	Enabling Consortium Participants

This section also should include an explanation of the technology advance that has been developed during previous stage funded by ATTRACT.

2. Impact (5 pages maximum)

This section should describe in **concrete and quantifiable** terms the impact that the project will achieve by its end. Special emphasis should be given regarding the characteristics of the final scaled up technology modules and/or systems. Also, special attention should be given to the market/industrialization impact, the value for the scientific communities and the technology impacting aspects.

Although not mandatory, it is highly encouraged to use the following table besides an explanatory text:

Technology Benchmark Table

Technology scale up (type) developed in the project	Main benchmark performance parameters actually on the market	Main performance parameters at the end of the project	TRL ²² level at the start of the project	TRL level at the end of the project

Demonstration Table

Technology scale up (type) developed in the project	Technology demonstration cases foreseen in the project	Targeted applications	Enabling partners	Future actions/deployments beyond the project duration

Scientific Impact Table

Technology scale up (type) developed in the project	Targeted scientific challenge	Main routes for scientific deployment (e.g. instrumentation building)	Interest for Research Infrastructures in Europe (e.g. which ones and why)

²² Technology Readiness level. See for example

https://ec.europa.eu/research/participants/data/ref/h2020/other/wp/2016_2017/annexes/h2020-wp1617-annex-g-trl_en.pdf

Market and Social Impact Table

Technology scale up (type) developed in the project	Targeted social challenge	Targeted market	Main routes for market deployment envisioned and involved partners

Applicants to the **Modality B: Industrial System** are requested to specify in a more level of detail and additional to this table the foreseen pathway to market, the resources dedicated to this complementary to the funding received from ATTRACT as well as the estimated timeline.

3. Implementation (5 pages maximum)

This section should describe the work plan for achieving the objectives and impact of the project as well as measurable parameters allowing the establishment of control mechanisms during the project course.

The following tables should be used for the different project Work Packages. Each Work Package Table should not be more than half a page.

Work Package Management (Starting month XXX/ Finishing month XXX)	Main Management Deliverables	Deliverable date ²³	Responsible Organization
Short summary of the Work Package			

Work Package Technology Development (Starting month XXX/ Finishing month XXX)	Main Technology Development Deliverables	Deliverable date	Responsible Organization
Short summary of the Work Package			

Work Package Technology Demonstration (Starting month XXX/ Finishing month XXX)	Main Technology Demonstration Actions	Delivery time	Responsible Organization
Short Summary of the Work Package			

Work Package Dissemination and Outreach (Stating month XXX/ Finishing month XXX)	Main Dissemination and Outreach Deliverables	Deliverable time	Responsible Organization
Short summary of the Work Package			

Please pay special attention to include the deliverables that guarantee a sufficient public dissemination of the project results. Open sharing of project information and deliverables is encouraged among all

²³ Month 0 (M0) is considered as the start of the project.

applicants. As a minimum, the applicants must commit to provide for public dissemination at the ATTRACT Phase 2 final event in Brussels the following deliverables:

1. A final project summary in PDF format of maximum 2000 characters, including spaces.
2. A poster presentation (format to be announced no later than two months prior to the ATTRACT final event).
3. A “scientific journal-type” article summarizing the main project results and methodology used to achieve them.

This section should also include a risk table as follows:

Project Risk	Mitigation strategy

This section should also include a Gantt chart of the project indicating the main deliverables.

4. Financials (5 pages maximum)

This section should describe the costs allocation of the project. The following table should be used:

Nature of the expenses (e.g. Personal costs, travelling, etc) ²⁴	Allocated costs	Consortium Organization Benefiting	
			TOTAL PROJECT BUDGET

In this section, as indicated in the ATTRACT Phase 2–Call for Proposals, consortia, especially for Modality B, are also encouraged to mention any complementary funding sources (e.g. public and/or private) reflecting public and/or private commitment to the project technology deployment in the market. Please take into account the note on double funding mentioned in the ATTRACT Phase 2–Call for Proposals.

Nature of the complementary funded sources	Amount (optional)	Benefit to the project

²⁴ Please be aware that the budget lines should contain costs that are eligible under H2020 rules. See for example: https://ec.europa.eu/research/participants/data/ref/h2020/grants_manual/amga/h2020-amga_en.pdf

ATTRACT Phase 2 Call Evaluation Criteria

The ATTRACT Phase 2 Call proposal sections will be scored and evaluated according to the following criteria

1. Objectives: 10 points

Evaluation criteria:

- Are the project proposal objectives adequately and clearly defined?
- Are the project proposal objectives adequately and clearly explained?
- Does the envisioned Technology Readiness Level match the call objectives?

2. Impact: 50 points

Evaluation criteria:

- Is the modality of the proposal (A or B) coherent with the overall impact?
- Are the technology demonstration cases relevant for scientific and industrial communities?
- Are the targeted industrial applications addressing a key and sounding market gap?
- Will the project bring a sounding benefit beyond state of the art to scientific and industrial communities?
- Is the consortium composition suited for achieving the project goals and impact?
- Are there sufficient and meaningful dissemination and outreach actions?

3. Implementation: 30 points

Evaluation criteria:

- Are the Work Packages coherent with the envisioned impact?
- Are the deliverables coherent with the envisioned impact?
- Is the project timing realistic to achieve the envisioned impact?
- Are all partners playing a meaningful role in the project?
- Is the mitigation strategy for the identified risks sound and sufficient?

4. Financials: 10 points

Evaluation criteria:

- Are the budget lines coherent with the overall project?
- Are there any over budgeted and/or under budgeted lines, regarding the objectives and impact envisioned?

PROPOSAL FINAL SCORE IS THE SUM OF ALL SECTIONS

ATTRACT Phase 2 Third Party Project Agreement

ATTRACT-Phase 2 Third Party Project Agreement

For

project name

BETWEEN

The entities participating in the ATTRACT-Phase 2 consortium (“**Consortium Partners**”), represented by **the European Organization for Nuclear Research**, (“**CERN**” or the “**Coordinator**”),

AND

The entities (“**Third Parties**”) participating in the ATTRACT-Phase 2 Third Party Project as described in their proposal “**NAME**” (“**Project**”), represented by **YYY** (“**Third Parties Coordinator**”),

The Consortium Partners and the Third Parties are hereinafter referred to as the “**Parties**” or individually as the “**Party**”; and Third Parties are hereinafter referred to individually as “**Third Party**”,

WHEREAS

The ATTRACT-Phase 2 initiative (“**ATTRACT**”) comprises nine (9) European entities (“**Consortium Partners**”), collaborating under a consortium agreement, with the purpose of establishing a systematic framework to transform breakthrough technologies developed for fundamental research purposes into breakthrough innovations, having strong industrial applications and societal added value. CERN is the Coordinator of ATTRACT.

The Consortium Partners are

- the European Organization for Nuclear Research (CERN);
- the European Molecular Biology Laboratory (EMBL);
- the European Synchrotron Radiation Facility (ESRF);
- the European Southern Observatory (ESO);
- the ESADE Ramon Llull University (ESADE);
- the European X-Ray Free-Electron Laser Facility GmbH (XFEL);
- the Institut Max von Laue-Paul Langevin (ILL);
- the Aalto University Foundation sr (AALTO); and
- the European Industrial Research Management Association (EIRMA).

The Consortium Partners receive funding from the European Union for ATTRACT under Grant Agreement no. 101004462 and the Horizon 2020 Framework Programme for Research and Innovation (2014-2020) (“**Grant Agreement**”)²⁵.

²⁵ NUMBER 101004462 — ATTRACT2

The ATTRACT Independent Research & Development & Innovation Committee (“**IC**”) has evaluated the proposal by the Third Parties to carry out the Project in the domain of [REDACTED], submitted in accordance with the requirements established in the document “Proposal Guidelines and Proposal Template”²⁶.
The Third Parties are:

- [REDACTED]
- [REDACTED]
- [REDACTED]

The Project has been accepted for funding and implementation.

The Third Parties have appointed the Third Parties Coordinator from among them and authorised it to sign this Agreement on their behalf.

This ATTRACT-Phase 2 Third Party Project Agreement (“**Agreement**”) is concluded within the context set out here above:

1. Purpose

The Third Parties shall carry out the Project in accordance with, and in order of priority, the terms and conditions set out in this Agreement, the requirements set out in the document “Proposal Guidelines and Proposal Template” and the Project proposal. The Third Parties are jointly and severally liable for the performance of the obligations under this Agreement. The Project proposal is set out in Annex 1, which forms an inherent part of this Agreement.

2. Deliverables

1. By August 15th 2024, the Third Parties shall deliver to the Coordinator, through the Third Parties Coordinator, the deliverables established in the Project proposal, which shall include in any event the interim reports set out in the document “Proposal Guidelines and Proposal Template” and the following items (“**Deliverables**”):
 - A final public summary of the Project, in PDF format of maximum 2000 characters, including spaces.
 - A scientific journal-type article, summarising the main Project Results and methodology used to achieve the Results.
 - A poster presenting the Project.
 - A brief report on the activities carried out with the student projects.
2. Subsequently, the Third Parties shall present their Project and related Results at the ATTRACT Final Conference in Brussels at a date to be determined by the Consortium Partners.

3. Grant and Payment

1. For the implementation of the Project the Coordinator shall pay to the Third Parties Coordinator a total amount of funding stipulated as below (“**Grant**”)²⁷. It is the responsibility of the Third Parties Coordinator to distribute the Grant to the Third Parties in accordance with any arrangement agreed among them.
2. The Coordinator shall pay 40 % of the Grant to the Third Parties Coordinator within thirty (30) days of signature of this Agreement.

²⁶ <https://attract-eu.com/>

²⁷ Pending the final approval by the Independent R&D&I Committee on the exact amount to be funded.

3. Subject to a successful interim evaluation pursuant to Article 4.2, the Coordinator shall pay 45 % of the Grant to the Third Parties Coordinator within thirty (30) days of the completion of the interim evaluation.
4. Subject to a positive final evaluation of the completed projects by the IC due at month twenty-six (26), the Coordinator shall pay the remaining amount of the Grant to the Third Parties Coordinator no later than the official end date of the Grant Agreement.
5. The Coordinator is entitled to reduce or withhold any payments for the implementation of the Project in the event that:
 - a) a Third Party is identified to be in breach of its obligations under this Agreement, or
 - b) following the interim evaluation, the IC has identified short-comings in the Project and established a new timeline and deliverables to remedy these short-comings pursuant to Article 4.3;
 - c) the Grant Agreement or this Agreement is terminated for whatever reason; or
 - d) the European Commission reduces the grant amount to the Consortium Partners under the Grant Agreement.
6. The Coordinator, in coordination with the European Commission, reserves the right to claim back all or part of the Grant in the event that the Third Parties do not submit all of the Deliverables in the required format or on the prescribed dates.
7. Subject to the payment of the Grant funding pursuant to this Article 3, any costs or expenses incurred by the Third Parties in the execution of the Project shall be exclusively for their account, without liability for the Consortium Partners.
8. The Third Parties Coordinator shall return any unspent amount of the Project to the Coordinator, and ensure that where a Third Party spends less than its allocated share of the Project budget, it shall only be funded in accordance with its duly justified eligible costs.

4. Monitoring and Acceptance

1. The Consortium Partners, including through the IC, will periodically monitor the progress of the Project. Such monitoring may include face-to-face meetings and site visits. Acceptance of the Deliverables shall be in accordance with the procedure set out in the document “Proposal Guidelines and Proposal Template”.
2. In particular, at month twelve (12) of the Project, the Third Parties Coordinator is required to submit an interim report to the IC for its evaluation and decision, which shall be at its discretion and cannot be contested.
3. If the IC identifies short-comings in the Project, it will establish a timeline and deliverables for the Third Parties to remedy these short-comings. The IC will subsequently carry out a second interim evaluation.

5. Intellectual Property

Subject to Article 10, the provisions of the Grant Agreement governing the ownership, use and access to Intellectual Property (Articles 23a to 31 of the Grant Agreement) shall apply *mutatis mutandis* to the Third Parties.

6. Warranties

The Third Parties Coordinator warrants, and shall ensure that each Third Party also warrants, that:

- a) each Third Party has, and shall maintain for the term of this Agreement, full power and authority and all necessary licenses and consents to enter into this Agreement and perform all of its obligations under it; and
- b) there are no actions, claims or proceedings pending or threatened against a Third Party that could or do adversely affect the performance of its obligations under this Agreement.

7. Liability

1. The Consortium Partners shall have no liability to the Third Parties in relation to the subject matter of this Agreement except for the payment of the Grant as set out in Article 3.
2. The liability of the Third Parties to the Consortium Partners in relation to the submission of the Deliverables shall be limited to the amount of the Grant. Such limitation shall not diminish the liability of a Third Party for:
 - a violation of any EU rule, regulation or other instrument referred to in this Agreement;
 - fraud, acts of gross negligence or wilful misconduct; or
 - any breach of intellectual property rights of third parties, including a breach of confidentiality.

The Third Parties shall indemnify and hold the Consortium Partners harmless from and against any loss, liability, repayment or damages of any kind that result from or arise out of any of the foregoing, in particular where this has an effect on the Consortium Partners' obligations under the Grant Agreement.

3. Article 46 of the Grant Agreement shall apply *mutatis mutandis* to this Agreement, such that the European Commission shall have no liability to the ATTRACT Third Parties.

8. Use of images, logos and names of the Consortium Partners

1. Each Party may refer to and make known the name and nature of the Project, including the names of the Parties involved, for the purposes of the Project.
2. Notwithstanding the foregoing, the Third Parties shall not use or make reference to the image or logo of any of the Consortium Partners without the prior written permission of the Consortium Partner concerned. Any such permission may be withdrawn by the Consortium Partner concerned at any time, and in any event shall expire upon termination of this Agreement.

9. Obligations originating from the EU

The Third Parties shall be subject to the following obligations as set out in the Grant Agreement:

1. Dissemination and Communications (Article 38 of the Grant Agreement)
 - a) The provisions of the Grant Agreement governing promotion, publicity and communication shall apply to this Agreement. In particular, all communication activities (including in electronic form and via social media), as well as any infrastructure, equipment and major

Results financed under this Agreement, shall display the EU emblem and include the following text:

- for communication activities: ‘*This is part of ATTRACT that has received funding from the European Union’s Horizon 2020 Research and Innovation Programme*’;
- for infrastructure, equipment and major Results: ‘*This [infrastructure][equipment][insert type of result] is part of ATTRACT that has received funding from the European Union’s Horizon 2020 Research and Innovation Programme*’;

- b) The Consortium Partners and the EU may use the Third Parties’ Deliverables and names for the purposes of communication and publicity, including storage and archiving.

2. Conflict of interest (Article 35 of the Grant Agreement)

- a) Each Third Party shall take all measures necessary to prevent a situation arising where the impartial and objective implementation of this Agreement is compromised for reasons involving economic interests, political or national affinity, family, personal life or any other shared interest.
- b) The Third Party(ies) concerned shall notify the Coordinator, through the Third Parties Coordinator, without delay of any situation constituting or likely to lead to a conflict of interest (including changes of ownership) and shall immediately take all steps necessary to rectify this situation. The Coordinator, through the Third Parties Coordinator, may instruct the Third Party(ies) concerned to take specific measures to remedy the situation.

3. Ethics and research integrity (Article 34 of the Grant Agreement)

- a) The Third Parties shall carry out the Project in compliance with ethical principles.
- b) The Third Parties shall carry out the Project for peaceful purposes only.
- c) The Third Parties shall comply with the highest standards of research integrity — as set out, for instance, in the European Code of Conduct for Research Integrity²⁸.

Inter alia, this means that each Third Party shall ensure that persons carrying out research tasks:

- (i) present their research goals and intentions in an honest and transparent manner;
- (ii) design their research carefully and conduct it in a reliable fashion, taking their impact on society into account;
- (iii) use techniques and methodologies (including for data collection and management) that are appropriate for the field(s) concerned;
- (iv) exercise due care for the subjects of research — be they human beings, animals, the environment or cultural objects;
- (v) ensure objectivity, accuracy and impartiality when disseminating the Results;
- (vi) allow — as much as possible and taking into account the legitimate interest of the Third Party(ies) concerned — access to research data, in order to enable research to be reproduced;
- (vii) make the necessary references to their work and that of other researchers;
- (viii) refrain from practicing any form of plagiarism, data falsification or fabrication;
- (ix) avoid conflicts of interest and misrepresentation of credentials or other research misconduct.

²⁸ The European Code of Conduct for Research Integrity of ALLEA (All European Academies) and ESF (European Science Foundation) of March 2011.
http://www.esf.org/fileadmin/Public_documents/Publications/Code_Conduct_ResearchIntegrity.pdf

In addition, before starting any activity that raises an ethical issue, the Third Party(ies) concerned shall submit to the Coordinator, through the Third Parties Coordinator, a copy of:

- any ethics committee opinion required under applicable laws, and
- any notification or authorisation for activities raising ethical issues required under applicable laws.

4. Obligation to provide information and keep records (Article 18 of the Grant Agreement)

- a) Each Third Party shall, at all times during the implementation of this Agreement, provide any information requested by the Coordinator, through the Third Parties Coordinator, in relation to this Agreement.
- b) Each Third Party shall keep, for a period of at least five (5) (years from termination of this Agreement, records and other supporting documentation relating to the implementation of this Agreement, in particular records and other supporting documentation on scientific and technical implementation and on the price charged and the costs incurred by any Third Party.
- c) Each Third Party shall keep its original documents. Digital and digitalised documents are considered originals if so recognised under Belgian law. In the event of on-going checks, reviews, audits, investigations, litigation or other pursuits of claims in respect of this Agreement, each Third Party shall keep its records and other supporting documentation relating to the implementation of this Agreement until the end of such procedures.

5. EU checks, reviews, audits and investigations (Article 22 of the Grant Agreement)

Should the EU, including as represented by the European Court of Auditors or the European Anti-Fraud Office (OLAF), decide to carry out a check, review, audit or investigation, the Third Party(ies) concerned shall make available all its information, records and other supporting documents relating to the implementation of this Agreement. Should there be an on-the-spot visit by the EU or its representatives, the Third Party(ies) shall allow access to its premises and shall ensure that any information requested in relation to the Project is readily available.

6. EU impact evaluation (Article 23 of the Grant Agreement)

Should the EU carry out an impact evaluation of the Grant Agreement, the Third Parties shall make available all information, records and other supporting documents relating to the implementation of the Project.

7. Confidentiality (Article 36 of the Grant Agreement)

The provisions of the Grant Agreement governing confidentiality shall apply *mutatis mutandis* to the Third Parties.

10. Dissemination and Communication of Results

1. Subject to Article 5, the Third Parties shall strive to disseminate jointly the Results generated under the Project and shall ensure Open Access to all their resulting scientific publications. The copyright in any article shall be vested in the Third Party(ies) having contributed to that article.
2. Any dissemination shall expressly mention that the Consortium Partners are not responsible for any use that may be made of the Results.

3. Notwithstanding any intellectual property rights in the Deliverables by the Third Parties, the Third Parties agree to the dissemination of the Deliverables, in whole or in part, by the Consortium Partners at the ATTRACT Final Conference in Brussels and beyond.
4. Any communication by the Third Parties shall expressly mention that it only reflects the Third Parties' views and not necessarily those of the Consortium Partners.

11. Entry into force and Termination

1. The Third Parties Coordinator shall sign this Agreement on behalf of the Third Parties fifteen (15) days of receipt of this Agreement. This Agreement shall enter into force upon signature by the Third Parties Coordinator.
2. This Agreement shall terminate upon completion of the Project, as evidenced by the acceptance of the Deliverables and the presentation at the ATTRACT Final Conference in Brussels, as referred to in Article 2.2.
3. Either Party may terminate this Agreement with immediate effect by giving written notice if the other Party is in material breach of its obligations and such breach either cannot be remedied, or, where such breach is capable of remedy, is not so remedied within thirty (30) days of notice being given.
4. The Coordinator may terminate the participation of a Third Party by written notice to the Third Parties Coordinator concerned, if a change to that Third Party's legal, financial, technical, organisational or ownership situation is likely to adversely affect or delay the Project or calls into question to award the Grant in respect of that Third Party. The remaining Third Parties shall remain liable for carrying out the Project in accordance with this Agreement.
5. The Consortium Partners, acting through the Coordinator, may terminate this Agreement with immediate effect, if,
 - a) implementation of the Project is prevented by force majeure and either:
 - (i) resumption is impossible, or
 - (ii) the necessary changes to this Agreement would call into question the decision to award the Grant or breach the principle of equal treatment of applicants in the award procedure;
 - b) the Third Parties have failed to remedy the short-comings identified by the IC in accordance with Article 4.3;
 - c) a Third Party is declared bankrupt, wound up, has its affairs administered by the courts, enters into an arrangement with creditors, suspends or has its business activities suspended, or is subject to any other similar proceedings or procedures under national law;
 - d) a Third Party (or a natural person who has the power to represent or take decisions on a Third Party's behalf) has been found guilty of fraud, corruption, involvement in a criminal organisation, professional misconduct, proven by any means;
 - e) a Third Party does not comply with any applicable national laws on taxes or social security.
6. In the event that this Agreement is terminated by the Consortium Partners, acting through the Coordinator pursuant to Articles 11.3, 11.4 or 11.5, the Third Parties shall be liable for the repayment of all or part of the Grant to the Consortium Partners, via the Coordinator,.

12. Survival of Articles

Articles 5 to 14 of this Agreement shall survive the termination of this Agreement (including termination of participation of an individual Third Party) or, where applicable, for the time period mentioned therein.

13. Mandatory laws, governing law and dispute resolution

1. The Parties shall comply with the laws applicable to them, including the legal framework governing data privacy protection.
2. The terms of this Agreement shall be interpreted in accordance with their true meaning and effect. If this Agreement is silent on a matter, or if any of its terms is ambiguous or unclear, then in those circumstances only and not in respect of this Agreement as a whole, reference shall be made to Belgian substantive law.
3. Nothing in this Agreement shall be deemed or interpreted as a waiver, express or implied, of any privileges and immunities accorded to any of the Parties under its constituent documents or under international law.
4. The Parties shall endeavour to settle any disputes in respect of this Agreement amicably. Any such dispute, controversy or claim, including, without limitation, its formation, validity, binding effect, interpretation, performance, breach or termination, as well as non-contractual claims, that cannot be settled amicably shall, upon the filing of a request for arbitration by either Party, be referred to and finally determined by a single arbitrator in accordance with the WIPO Expedited Arbitration Rules. The place of arbitration shall be Brussels, Belgium and the language used in the arbitral proceedings shall be English, unless otherwise agreed upon. The arbitration award shall be final and binding on the Parties.

14. Assignment

Neither Party shall assign this Agreement in whole or in part to a third party.

For the Coordinator

Markus Nordberg, ATTRACT Project Coordinator

In.....

On.....

For the Third Parties Coordinator

NAME, POSITION OF SIGNATORY

In.....

On.....

Annex 1: Project proposal



ANNEX 1 to this Guide for Applicants: Power of Attorney Template

NOTE: Power of Attorney Template for use by the Third Parties, authorizing the Third Parties Coordinator submitting the project proposal and signing the ATTRACT Third Party Project Agreement on their behalf, in the event that their application is successful.

The template Power of Attorney should be read in conjunction with the ATTRACT Third Party Project Agreement in this Guide for Applicants. Third Parties are free, but not obliged to use this specific template. They may adjust this specific template in accordance with their own legal requirements or, alternatively, choose to use a different format.

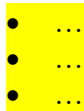
Although Third Parties are not obliged to use this specific template, it is essential that they provide written confirmation that their Third Parties Coordinator has authority to submit the project proposal and sign the ATTRACT Third Party Project Agreement on their behalf, in the event that their application is successful.

POWER OF ATTORNEY

(To be printed on letterhead of the Third Party executing the Power of Attorney, not of the Third Parties Coordinator)

[Name of Third Party], [address] hereby confirms and acknowledges that

shall be the representing entity (“Third Parties Coordinator Organization”) of the entities participating in the ATTRACT Third Party Project entitled “[Name of the Project]” (the “Project”) which, in addition to the Third Parties Coordinator, shall be



(the “Third Parties”).

In this capacity, the Third Parties Coordinator shall be the leader and authorized representative of the Third Parties for all matters relating to the Project. It shall be authorized *inter alia* to submit the project proposal and sign the Third Party Project Agreement and accept all rights and obligations contained therein for and on behalf of the Third Parties.

For [Name of Third Party]

Name:

Place:

Date:

Signature of the authorized person from the Coordinating organization:

ANNEX 2 to this Guide for Applicants: ATTRAC Open Call Themes

Theme 1: Breakthrough technology systems for quantum information technologies

Theme 1 Call Text: Proposals should target for an integrated approach of different quantum information technologies for fast signal generation, acquisition, and (encrypted) transmission. The focus should include, but not be limited to low energy superconducting switching logic in optical networks, integrated photonic platforms, ultra-fast imaging and ultra-low-power non-volatile RAM. It is encouraged that proposals contemplate the integration of different technologies.

Proposals must go beyond the device level by developing a full prototype system incorporating the key features required for practical operation (e.g. data processing and compression software, transmission and storage). Formation of consortia is encouraged seeking partnership with relevant projects funded in ATTRACT Phase 1 as well as with end users. The deliverables at the end of the project are expected to include an integrated prototype at TRL 6 or 7 (i.e. technology demonstrated in a relevant operational environment) and a clearly defined route to market.

Theme 2: Breakthrough technology systems for environmental monitoring and improvement of quality of life

Theme 2 Call Text: Proposals are expected to develop breakthrough technologies in the field of environmental monitoring. The focus should be on one or both of the following sub-themes:

- a) Aerial environmental monitoring (e.g. by using beyond state of the art unmanned autonomous carriers), of critical environmental parameters such as physical, chemical and radiation emitting pollutants including the provision of accurate representations (e.g. 3D data maps).
- b) In situ monitoring of fluid flows (e.g. innovative micro and/or macro pipe monitoring). It is expected that the technology enable multiple sensor types adapted to particular applications.

Proposals must go beyond the device level by developing a full prototype system incorporating the key features required for practical operation (e.g. data processing and compression software, transmission and storage). Formation of consortia is encouraged seeking partnership with relevant projects funded in ATTRACT Phase 1 as well as with end users. The deliverables at the end of the project are expected to include an integrated prototype at TRL 6 or 7 (i.e. technology demonstrated in a relevant operational environment) and a clearly defined route to market.

Theme 3: Breakthrough Terahertz Imaging or Ranging Systems

Theme 3 Call text: Proposals are expected to develop breakthrough technology in Terahertz imaging and ranging.

- a) For imaging a special focus is placed on hyperspectral methods, where the technology should achieve accurate spectral recognition by providing simultaneously both the spatial and the spectral characterization of the sample.
- b) For ranging a special focus is placed on portable THz devices applicable for personal localisation in unknown environments.

Proposals must go beyond the device level by developing a full prototype system incorporating the key features required for practical operation (e.g. data processing and compression software, transmission

and storage). Formation of consortia is encouraged seeking partnership with relevant projects funded in ATTRACT Phase 1 as well as with end users. The deliverables at the end of the project are expected to include an integrated prototype at TRL 6 or 7 (i.e. technology demonstrated in a relevant operational environment) and a clearly defined route to market.

Theme 4: Highly efficient photon detection systems from infrared to low energy X-rays

Theme 4 Call text: Proposals are expected to develop breakthrough technologies in the field of highly efficient photon detection from infrared to low energy X-rays. The focus should be in one or both of the following sub-themes:

- a) Single photon detection (for example enabled by superconducting detector technology) at high detection rate with low spurious background and signal processing capability.
- b) Highly efficient imaging in visible light (VIS) to short-wave infrared (SWIR). The proposals should be able to produce cost-effective image sensors using commercial CMOS technology.

Proposals must go beyond the device level by developing a full prototype system incorporating the key features required for practical operation (e.g. data processing and compression software, transmission and storage). Formation of consortia is encouraged seeking partnership with relevant projects funded in ATTRACT Phase 1 as well as with end users. The deliverables at the end of the project are expected to include an integrated prototype at TRL 6 or 7 (i.e. technology demonstrated in a relevant operational environment) and a clearly defined route to market.

Theme 5: Breakthrough optical systems for visible light

Theme 5 Call text: Proposals are expected to develop breakthrough technologies in optical systems for visible light with a special focus on adaptive liquid crystal or metamaterial optical elements.

Proposals must go beyond the device level by developing a full prototype system incorporating the key features required for practical operation (e.g. data processing and compression software, transmission and storage). Formation of consortia is encouraged seeking partnership with relevant projects funded in ATTRACT Phase 1 as well as with end users. The deliverables at the end of the project are expected to include an integrated prototype at TRL 6 or 7 (i.e. technology demonstrated in a relevant operational environment) and a clearly defined route to market.

Theme 6: Breakthrough Point of Care Detection Systems for Healthcare

Theme 6 Call text: Proposals are expected to develop breakthrough technology for point of care applications. The focus should be on the following sub-themes:

- a) Compact, fast and portable point of care detection systems focusing on Surface Plasmon Resonance of disease biomarkers directly from patient samples, enabling rapid and direct feedback to healthcare providers in life threatening situations, such as the risk of sepsis, septic shock and widespread infectious diseases.
- b) Non-invasive transcutaneous blood gas monitoring (TBM) specially focusing on prematurely born children and that simultaneously overcomes state of the art problems such as stiffness, heating, and the use of strong adhesives.

- c) Enhanced optical and manipulative endoscopy technologies applied to areas such as laparoscopic surgery and enabling robotic surgery as well as 3D real-time imaging resolution.

Proposals must go beyond the device level by developing a full prototype system incorporating the key features required for practical operation (e.g. data processing and compression software, transmission and storage). Formation of consortia is encouraged seeking partnership with relevant projects funded in ATTRACT Phase 1 as well as with end users, which should include health care providers. The deliverables at the end of the project are expected to include an integrated prototype at TRL 6 or 7 (i.e. technology demonstrated in a relevant operational environment) and a clearly defined route to market.

Theme 7: Breakthrough intraoperative technologies for Cancer Imaging

Theme 7 Call text: Proposals are expected to develop breakthrough intraoperative technology in the field of cancer detection combining beta and gamma imaging for Radio-Guided Surgery (RGS). The focus should be on technologies with high spatial resolution, high sensitivity, and low-power consumption.

Proposals must go beyond the device level by developing a full prototype system incorporating the key features required for practical operation (e.g. data processing and compression software, transmission and storage). Formation of consortia is encouraged seeking partnership with relevant projects funded in ATTRACT Phase 1 as well as with end users, which should include health care providers. The deliverables at the end of the project are expected to include an integrated prototype at TRL 6 or 7 (i.e. technology demonstrated in a relevant environment and/or prototype demonstration in an operational environment) and a clearly defined route to market.

Theme 8: Breakthrough Augmented Reality Systems for Health Care

Theme 8 Call text: Proposals are expected to develop breakthrough technologies in the field of surgical interventions. The focus should be on hyperspectral and/or multimodal technologies fusing different imaging systems (e.g. MRI, NIR, etc) in Augmented Reality (AR) for surgical use.

Proposals must go beyond the device level by developing a full prototype system incorporating the key features required for practical operation (e.g. data processing and compression software, transmission and storage). Formation of consortia is encouraged seeking partnership with relevant projects funded in ATTRACT Phase 1 as well as with end users, which should include health care providers and practitioners. The deliverables at the end of the project are expected to include an integrated prototype at TRL 6 or 7 (i.e. technology demonstrated in a relevant operational environment) and a clearly defined route to market.

Theme 9: Breakthrough Biology and/or Health Care Imaging Systems

Theme 9 Call text: Proposals are expected to develop breakthrough technology in the field of Health care Imaging. In concrete, addressing the following sub-themes:

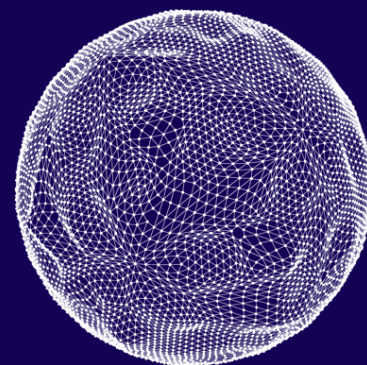
- a) Molecular imaging focused on the analysis of tissues and especially cancer and related specific molecules using novel technologies such as Differential Mobility Spectrometry (DMS) and simultaneously allowing to bring down the cost of molecular imaging equipment by at least an order of magnitude.

- b) Living cells imaging by using novel technologies such as Cavity-Enhanced Microscopy (CEMIC), which enable label-free imaging techniques for low-contrast images as well as open the pathway for quantum non-demolition images of macroscopic quantum objects.
- c) Novel image reconstruction technologies such as Algebraic Speckle Tomography, which considerably improve state of the art in radiological applications for which the requirements on modulation length and the gantry stability are stricter.
- d) Novel imaging technologies such as hyperspectral imaging that for example allow profiling of in vitro fertilization embryos enhancing the state of the art practice largely based on the embryologist's experience alone for identifying viable embryos.

Proposals must go beyond the device level by developing a full prototype system incorporating the key features required for practical operation (e.g. data processing and compression software, transmission and storage). Formation of consortia is encouraged seeking partnership with relevant projects funded in ATTRACT Phase 1 as well as with end users, which should include health care providers. The deliverables at the end of the project are expected to include an integrated prototype at TRL 6 or 7 (i.e. technology demonstrated in a relevant operational environment) and a clearly defined route to market.



Developing breakthrough technologies for
science and society



ATTRACT2

Guide for Applicants

Submission of Socio Economic Study Proposals



ATTRACT Phase 2 Socio-Economic Studies Open Call For Proposals

This ATTRACT Phase 2 Socio-Economic Studies Open Call offers a unique opportunity for novel and interdisciplinary studies within and across innovation management, academic entrepreneurship, research policy, science and technology studies, sociology, political science, and economics.

Therefore, interested legal entities are invited to submit proposals for Socio-Economic Studies that focus on the ATTRACT ecosystem and related innovation ecosystems in the frame of the thematic fields set out below (please refer to Part 1 – ATTRACT Phase 2 Socio-Economic Studies).

ATTRACT

The goal of ATTRACT is to establish a systematic framework to transform breakthrough technologies, developed for fundamental research purposes into breakthrough innovations that can be turned into sound industrial applications and provide added value for society.

ATTRACT was initiated by nine European entities (the ATTRACT Consortium):

- European Organization for Nuclear Research (CERN),
- Aalto Korkeakoulusaatio (AALTO),
- ESADE, Ramon Llull University (ESADE),
- ESRF – The European Synchrotron (ESRF),
- European X-Ray Free-electron Laser GmbH (European XFEL),
- European Molecular Biology Laboratory (EMBL),
- European Southern Observatory (ESO),
- Institut Max von Laue Langevin – Paul Langevin (ILL),
- European Industrial Research Management Association (EIRMA).

CERN is the ATTRACT Coordinator.

More information on ATTRACT and the ATTRACT Consortium can be found at <https://attract-eu.com/>.

European Union funding

ATTRACT receives funding under the European Union's Horizon 2020 Research and Innovation programme under the Horizon 2020 grant agreement No. 101004462 (<https://attract-eu.com/>). However, it should be noted that the European Union is not involved in the ATTRACT Socio-Economic Open Call.

The ATTRACT Socio-Economic Open Call should be read in conjunction with the following documents:

- ATTRACT Phase 2 Socio-Economic Proposal Template (Annex 1)
- ATTRACT Phase 2 Socio-Economic Evaluation Criteria (Annex 2)
- ATTRACT Phase 2 Third Party Socio-Economic Study Project Agreement (Annex 3)
- Grant Agreement No. 101004462

PART 1 – ATTRACT PHASE 2 Socio-Economic Studies

The ATTRACT Socio-Economic Studies will seek novel perspectives and methods to evaluate the current process and outcomes of the ATTRACT Project, as well as informing future initiatives deriving

from the ATTRACT philosophy and framework. The ATTRACT Consortium, consisting of leading European scientific research infrastructures (ERIs), has formed an **ERI Innovation Ecosystem (ERI-IE)** to harvest novel applications of their sophisticated detection, imaging, and computational technologies.

Given the significant public investments made in ERIs, policymakers and societal stakeholders have sought a more sophisticated understanding of their impact. In the past, such impact had been studied by researchers in the following broad categories:

- 1) The socio-economic impact of pure science,
- 2) The economic spillovers from the construction and operation of scientific infrastructures,
- 3) The serendipitous derivatives (spin-offs) of scientific outcomes, processes, and infrastructures (instrumentation/detection/computing), and
- 4) Knowledge spillovers, capacity building, education, outreach, and cultural enrichment.

This Call for Proposals seeks to enrich the aforementioned research traditions, and build upon them towards new insights on how to better measure and realize the full socio-economic potential of ERI-IEs such as ATTRACT. It invites proposals for socio-economic studies that focus on the ATTRACT ecosystem (its members, activities, and stakeholders) as well as related scientific / technological consortia and innovation ecosystems that can serve to inform future phases of ATTRACT.

Towards this objective, eight (8) successful proposals will receive funding of 125KEUR to conduct novel studies over the course of 28 months within and across fields such as innovation management, academic entrepreneurship, research policy, science and technology studies, sociology, political science, and economics. The total amount of funding awarded under this call will be 1MEUR.

In addition to supporting the refinement of extant concepts and methods for ERI-IEs, this Call will prioritize proposals that go substantially beyond current best practices to both deepen and broaden the theory and practice of their socio-economic evaluation.

Specifically, the present Call seeks:

- Novel concepts and theories to understand the value of ERI-IEs,
- New conceptualizations of financial, political, and social costs and benefits,
- New empirical studies that offer contemporary modalities for the operationalization and appropriation of socio-economic value, including new metrics to assess efficacy and societal impact.

Proposals are encouraged on (but not limited to) the following *thematic fields*:

Area	Example studies
Measurement and Impact Assessment of ATTRACT or other ERI- IEs inspiring initiatives	<ul style="list-style-type: none"> - Qualitative and quantitative indicators of ATTRACT or ERI-IEs - Forecasting models for technology assessment and socio-economic value from ATTRACT or comparable ERI-IEs - Scientific discipline-specific metrics applicable to ATTRACT or others ERI-IEs - Sector specific issues; for example, energy, healthcare, materials, Internet of Things, manufacturing, robotics - Measurement using neoclassical ROI and associated methodologies for ATTRACT

	<ul style="list-style-type: none"> - Novel metrics to assess the intangible value of ATTRACT or similar ERI-IEs - Options thinking applicable to ATTRACT context
ATTRACT <i>Innovation Ecosystem</i> or comparable ERI-IEs (<i>Macro-studies</i>)	<ul style="list-style-type: none"> - Systems analysis of actors in ATTRACT or comparable ERI-IEs - Stakeholder analysis, partnering, structures, and constellations - Knowledge mapping of emerging ATTRACT ecosystem policy - Complementary policy levers for ERI-IEs such as demand-side initiatives - Econometric analysis of spillovers from ATTRACT (or exemplar ERI-IEs) operations
<i>ERI Ecosystem</i> Spin-offs (<i>Meso-studies</i>)	<ul style="list-style-type: none"> - Longitudinal analysis of science to business transitions - Comparative studies across ERI-IE spin-offs - Lifecycle models of breakthrough technologies from ERI-IEs - Meta-analysis of ERI deep tech commercialization pathways - Novel conceptual development for the structure, governance, and processes of ERI-IEs - Novel funding mechanisms for ERI-IEs
<i>Human Capital Development</i> in ATTRACT and similar ERI Ecosystems (<i>Micro-studies</i>)	<ul style="list-style-type: none"> - Evaluation of teaching and pedagogical methods and impacts appropriate for ERI innovation ecosystems - Experimental studies on entrepreneurial skill development - Social network analysis of team dynamics - Ethnographic research of ERI ecosystems

PART 2 – Participation Criteria and administrative instructions

A. Participation criteria

- Participation in the Call For Proposals is **open to all legal entities** having their seat in EU or H2020-Associated Countries¹.
- Participation is subject to each legal entity having a **validated Participant Identification Code (PIC)** granted by the European Commission under its registration process at <https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/how-to-participate/participant-register> , **at the time of the signature of the ATTRACT Third-Party Socio-Economic Study Agreement.**

In the event that at the time of the launch of this Call For Proposals a legal entity does not yet have a PIC, it is advised to immediately start the process of obtaining such PIC from the European Commission². Please note that the process for obtaining a validated PIC may take up to three months.

- Participating groups should have a proven **track record in** the domain of scientific policy and research infrastructure evaluation, demonstrated by publications in relevant journals.
- Socio-Economic Study proposals shall be submitted as a **joint proposal** by a group of at least two independent legal entities (group of participants). A legal entity may participate in more

¹ https://ec.europa.eu/research/participants/docs/h2020-funding-guide/index_en.htm

² <https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/how-to-participate/participant-register>

than one proposal across the above domains, and the same group of participants may submit more than one project proposal in the same or other domains.

- Each group of participants is free to organize itself in a manner it deems appropriate. However, it shall in all cases designate and mandate a lead participant which shall be authorized by all participants to act in their name and on their behalf as regards the:
 1. Submission of the Socio-Economic Study proposal,
 2. Signature of the ATTRACT Third-Party Socio-Economic Study Agreement³,
 3. All matters arising in the context of and relating to the ATTRACT Third-Party Socio-Economic Study Agreement .

The lead participant shall have the authority to bind all members and shall act as the sole intermediary between the other group participants and the ATTRACT Coordinator, as established in the power-of-attorney⁴. The power of attorney must be included as an annex of the proposal at the time of the submission.

Socio-Economic Study proposals by groups of participants which do not meet the above participation criteria will not be evaluated.

B. Study proposal length and format

- Study proposals shall use the ATTRACT Phase 2 Socio-Economic Study proposal template⁵
- Study proposals shall be a maximum of 8 A4 pages in length, not including the title page, the public summary and the powers of attorney. Scientific or Technical Annexes are not allowed.
- The font type shall be Times New Roman with a minimum font size of 11.
- The page margins shall be 1.5 cm on all sides.

Study proposals not complying with the length, font size and format conditions will not be evaluated.

C. Proposal content

Project proposals must comply with the ATTRACT Phase 2 Socio-economic Study Proposal Template.

D. Study proposal submission process and deadline

Study proposals and the powers of attorney shall be submitted by the lead participant **in one single PDF document**, exclusively through the ATTRACT website habilitated for this purpose⁶.

Deadline for submission of the Study proposals: September 20th, 2021 at 17:00 (CET)

Please note that it will not be possible to upload Study proposals after the deadline.

Study proposals by participants submitted after the deadline or otherwise non-compliant with these Proposal Guidelines will not be evaluated.

Any personal data submitted as part of the Study proposals will be processed in accordance with the applicable legal frameworks.

³ See fn 2

⁴ <https://attract-eu.com/> (see Calls).

⁵ Provided as an annex to this Guide for Applicants.

⁶ <https://attract-eu.com/>

D. Administrative assistance

Enquiries regarding administrative assistance during the submission process shall be raised exclusively to the ATTRACT Project Administrative Office (PAO) at ATTRACT-PAO@cern.ch and/or questions@attract-eu.com.

PART 3 - Proposal Evaluation

A. Evaluation process, evaluation criteria and scoring

All Study proposals received by the prescribed deadline will be evaluated in two steps, in a transparent and non-discriminatory manner:

Step 1: Compliance with the participation criteria and administrative instructions

Compliance of the participants and their Study proposals with the participation criteria and administrative instructions set out will be evaluated by the PAO.

The PAO is composed of administrative staff of the ATTRACT Consortium members.

Proposals that do not meet the participation criteria, or do not comply with the prescribed administrative instructions, will not be evaluated further as regards their contents.

Step 2: Evaluation of the contents of the Study proposals

Study proposals that have successfully passed evaluation step 1 will proceed to step 2 in which their contents will be evaluated by the Independent Review Committee for Socio-Economic Studies (IRC-SES) in accordance with the criteria and the scoring modalities set out in the ATTRACT Call Evaluation Criteria.

The IRC-SES is composed of scientific and technical experts in the relevant domains who are independent from the ATTRACT Consortium members. The list of IRC-SP members and information about their fields of expertise can be found here: <https://attract-eu.com/committees/>

B. Study proposal ranking

Based on the evaluation of each proposal, the IRC-SES will give a final score for each Study proposal, establish a ranking of the Socio-Economic Studies for funding and produce a Summary Evaluation Report.

C. Notification of evaluation results

Each ATTRACT Phase 2 Socio-Economic Studies Open Call lead participant of a group of participants will receive a notification by email from the PAO, of the result of the IRC-SES evaluation within 3 months of the Call submission deadline.

The final list of funded proposals and their executive summaries will be made available on the ATTRACT website following the signature of the ATTRACT Third-Party Socio-Economic Study Agreement.

By taking part in the ATTRACT Phase 2 Socio-Economic Study Open Call, participants accept the outcome of the IRC-SES evaluation as final and binding. Evaluation results, including the ranking for funding, cannot be contested.

Please note that the IRC-SES is not required to provide unsuccessful applicants with feedback regarding the application.

PART 4 - ATTRACT Third-Party Socio-Economic Study Agreement

Together with the notification of funding, the PAO will send to the lead participant of the group of participants the ATTRACT Third-Party Socio-Economic Study Agreement. The ATTRACT Third-Party Socio-Economic Study Agreement establishes the terms and conditions concerning the implementation of the project proposal by the respective groups of participants. **These terms and conditions are non-negotiable and must be accepted at the time of the submission of the Study proposal as part of the ATTRACT Phase 2 Socio-Economic Open Call.**

The lead participant shall sign the ATTRACT Third-Party Socio-Economic Study Agreement on behalf of all group participants within 15 calendar days of receipt.

A. Project duration

Starting on 1 January 2022⁷, the Studies have a duration of 28 months.

B. Funding

The grant amount of 125KEUR will be transferred to the lead participant as a single lumpsum payment within 30 days of the signature of the ATTRACT Third-Party Socio-Economic Study Agreement.

C. Project monitoring

The PAO will ensure that the following project monitoring actions are taken throughout the Study duration:

- M18: Interim report, including a brief overview of the expenses incurred and progress of the Study up to this point
- M28: Final report on the basis of templates to be provided by the PAO

D. Deliverables and presentation of funded Studies

Participants of selected Studies will have to attend a minimum of four workshops with other funded Study teams to find synergies and ensure coherence across the different activities:

- M1: an initial kick-off workshop,
- M18: an interim workshop,
- A final workshop following the end of the Studies to present the Studies' conclusions at a date to be confirmed, and
- Participation in the ATTRACT Final Conference at a date to be confirmed.

All funded Studies are required to generate the following deliverables:

1. An interim report to be submitted at the Interim Workshop in M18 (10 pages max. (A4, Times New Roman, 11));

⁷ Subjected also the signature of the Third Party project Agreement (TPPA).

2. A final Study report, summarizing the tasks and final outputs (30 pages max. (A4, Times New Roman, 11));
3. Derivative outputs from 1 and 2:
 - i. A “book chapter”-type contribution to a compendium book regarding socio-economic studies ERI-IEs (15 pages max. (A4, Times New Roman, 11));
 - ii. A position paper for general distribution, describing the result of the Study (5 pages max. A4 Times 11); and
 - iii. Multimedia contributions, including dissemination activities about the Study on social media channels.

All funded Studies are required to present their results at the ATTRACT Phase 2 Final Conference. The dates will be announced well in advance by the ATTRACT Consortium.

In addition, some participants may be invited to briefly present the Studies and their outcomes to participants in the ATTRACT Student Programs.

D. Open Access and dissemination of deliverables

All participants must ensure open access to any publications concerning their Studies. Notwithstanding any intellectual property rights in the deliverables by the participants, all participants agree to the dissemination of the deliverables, in whole or in part, by the ATTRACT Consortium at the ATTRACT Phase 2 Final Assessment Conference in Brussels and beyond.

IMPORTANT NOTE ABOUT DOUBLE FUNDING

All applicants should be aware that if their project proposals or activities included therein are already receiving EU funding, they are not eligible for the ATTRACT Phase 2 Call.

In order to get more information about the double funding principle applicants should consult <http://ec.europa.eu/social/BlobServlet?docId=1922&langId=en>

The applicants bear full responsibility to ensure that no activity in the submitted project proposal is already receiving EU funding. The ATTRACT Consortium encourages the applicants to consult with the coordinators of the EU-funded projects that their organizations are benefiting from and/or the responsible persons within their respective organizations.

ATTRACT Phase-2 Socio-Economic Study Proposal Template
(It is required that the participants format their application according to the instructions)



Proposal Title and Acronym
 (Indicate the proposal title and acronym)

This proposal responds to challenge(s) in the following thematic area
 (Innovation Ecosystem, Ecosystem Spin-offs, Human Capital Development, Measurement and Impact Assessment)

Coordinator’s name and email address
 (Indicate the submitting author’s name and e-mail)

Consortium Composition Table

	Organization full name	Organization short name / PIC number	Organization type ⁸	Contact person name	Contact person email
Coordinator					
Partner 2					
Partner 3					
...					
...					

⁸ Research Infrastructure, University, SME, Large Corporation, Research & Technology Organization, Start-up. If other, please specify.

Your main research question in one sentence:

Study Public Summary

The project summary is limited to 3,000 characters including spaces. It should contain the main objectives as well as a brief explanation of the novelty and benefits of the research project to the ATTRACT Scientific Research Infrastructure-Innovation Ecosystem (ERI-IE.).

1. Study Description

Briefly describe the Study's objectives and the main research question.

2. Motivation

Describe why the Study is needed, its novelty, and what contributions it will make to the ATTRACT ERI-IE.

3. State-of-the-art

Describe what the current literature knows about the topic that you are proposing, the current gaps that you are hoping to address, and their relevance to the ATTRACT ERI-IE

4. Methodology

Describe the methods you plan to use to address your research question. Include the data collection and analysis plans.

5. Envisioned Impact

Describe how your research would enrich our understanding of ERIs in general and how it will specifically contribute to the ATTRACT ERI-IE. Explain how the outcomes of the Study will guide European policymakers, scientists, students, and innovators and their roles in future phases of ATTRACT.

6. Previous projects and synergy

Enumerate previous projects/publications relevant to your current proposal in the domain of scientific policy and ERI evaluation (maximum of 5 for both). Explain the synergy between the participants in your project.

7. Budget Breakdown and Final Deliverables

Describe how the Study will be implemented within the 28 month duration. Provide an indicative budget breakdown (personal costs, travel, equipment, other) for the 125k Euros funding. Include a table of expected results after 28 months of work. Please pay special attention to include the deliverables that guarantee sufficient public dissemination of the project results. Open sharing of project information and deliverables is encouraged among all applicants.

1. An interim report to be submitted at the Interim Workshop in M18 (10 pages max. (A4, Times New Roman, 11));
2. A final Study report, summarizing the tasks and final outputs (30 pages max. (A4, Times New Roman, 11));
3. Derivative outputs from 1 and 2:
 - i. A "book chapter"-type contribution to a compendium book regarding socio-economic studies ERI-IEs (15 pages max. (A4, Times New Roman, 11));
 - ii. A position paper for general distribution, describing the result of the Study (5 pages max. A4 Times 11); and
 - iii. Multimedia contributions, including dissemination activities about the Study on social media channels.

ATTRACT 2 Socio-Economic Studies Call - Evaluation Criteria

Each evaluation question is scored from 1 to 5 (1 lowest score; 5 highest score). This score is then multiplied by the weighting factor to get the points in the section.

Proposal Section 1: Study Description

1. Are the Study proposal objectives adequately and clearly defined?

Score weighting factor: x1, Maximum points in section: 5

Proposal Section 2: Motivation

1. Is the Study addressing a need or policy challenge relevant to ATTRACT specifically and ERI-IEs in general?
2. Does the Study propose a novel idea or explore a unique phenomenon?

Score weighting factor: x2, Maximum points in section: 20

Proposal Section 3: State-of-the-art

1. Does the Study address a critical gap in the extant research and literature relevant to ATTRACT specifically and ERI-IEs in general?

Score weighting factor: x2, Maximum points in section: 10

Proposal Section 4: Methodology

1. Does the Study leverage novel yet appropriate methods?

Score weighting factor: x2, Maximum points in section: 10

Project Section 5: Envisioned Impact

1. Does the Study offer a substantial leap in our understanding of the socio-economic value of ERI-IEs?
2. Will the outcomes of the Study lead to actionable insights for practitioners and policymakers for ATTRACT specifically and ERI-IEs in general?

Score weighting factor: x2, Maximum points in section: 20

Project Section 6: Previous projects and synergy

1. Has the project team demonstrated knowhow of their topic of interest related to ERIs and ERI-IEs?
2. Do the Study members demonstrate synergy?

Score weighting factor: x2, Maximum points in section: 20

Project Section 7: Budget Breakdown and Final Deliverables

1. Do the proposed implementation steps demonstrate confidence that the anticipated results are achievable in 28 months?
2. Does the budget breakdown correspond to the presented implementation steps and is it reasonable?
3. Does the proposal support openness?

Score weighting factor: x1, Maximum points in section: 15

PROPOSAL FINAL SCORE IS THE SUM OF ALL SECTIONS (OUT OF 100)

ATTRACT 2 Socio-Economic Studies Call - Third-Party Agreement

ATTRACT-Phase 2 Third Party Socio-Economic Study Agreement **For** **Study name**

BETWEEN

The entities participating in the ATTRACT-Phase 2 consortium (“**Consortium Partners**”), represented by **the European Organization for Nuclear Research**, (“**CERN**” or the “**Coordinator**”),

AND

The entities (“**Third Parties**”) participating in the ATTRACT-Phase 2 Third Party Socio-Economic Study as described in their proposal “**NAME**” (“**Study**”), represented by **YYY** (“**Third Parties Coordinator**”),

The Consortium Partners and the Third Parties are hereinafter referred to as the “**Parties**” or individually as the “**Party**”; and Third Parties are hereinafter referred to individually as “**Third Party**”,

WHEREAS

The ATTRACT-Phase 2 initiative (“**ATTRACT**”) comprises nine (9) European entities (“**Consortium Partners**”), collaborating under a consortium agreement, with the purpose of establishing a systematic framework to transform breakthrough technologies developed for fundamental research purposes into breakthrough innovations, having strong industrial applications and societal added value. CERN is the Coordinator of ATTRACT.

The Consortium Partners are

- the European Organization for Nuclear Research (CERN);
- the European Molecular Biology Laboratory (EMBL);
- the European Synchrotron Radiation Facility (ESRF);
- the European Southern Observatory (ESO);
- the Fundación ESADE (ESADE);
- the European X-Ray Free-Electron Laser Facility GmbH (European XFEL);
- the Institut Max von Laue-Paul Langevin (ILL);
- the Aalto University Foundation sr (AALTO); and
- the European Industrial Research Management Association (EIRMA).

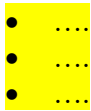
The Consortium Partners receive funding from the European Union for ATTRACT under Grant Agreement no. 101004462 and the Horizon 2020 Framework Programme for Research and Innovation (2014-2020) (“**Grant Agreement**”)⁹.

The ATTRACT Independent Review Committee for Socio-Economic Studies (“**IRC-SES**”) has evaluated the proposal by the Third Parties to carry out a socio-economic study in the domain of **.....**, submitted in accordance with the requirements established in the document “Proposal Guidelines and Proposal Template”¹⁰.

⁹Included in this Guide for applicants.

¹⁰ <https://attract-eu.com/>

The Third Parties are:



The Study has been accepted for funding and implementation.

The Third Parties have appointed the Third Parties Coordinator from among them and authorised it to sign this Agreement on their behalf.

This ATTRACT-Phase 2 Third Party Socio-Economic Study Agreement (“**Agreement**”) is concluded within the context set out here above:

Article 1: Purpose

The Third Parties shall carry out the Study in accordance with, and in order of priority, the terms and conditions set out in this Agreement, the requirements set out in the document “Proposal Guidelines and Proposal Template” and the Study proposal. The Third Parties are jointly and severally liable for the performance of the obligations under this Agreement. The Study proposal is set out in Annex 1, which forms an inherent part of this Agreement.

Article 2: Deliverables

1. By August 15th 2024 the Third Parties shall deliver to the Coordinator, through the Third Parties Coordinator, the deliverables established in the Study proposal, which shall include in any event the following items (“**Deliverables**”) set out in the document “Proposal Guidelines and Proposal Template”:
 1. An interim report to be submitted at the Interim Workshop in M18 (10 pages max. (A4, Times New Roman, 11));
 2. A final Study report, summarizing the tasks and final outputs (30 pages max. (A4, Times New Roman, 11));
 3. Derivative outputs from 1 and 2:
 - i. A “book chapter”-type contribution to a compendium book regarding socio-economic studies ERI-IEs (15 pages max. (A4, Times New Roman, 11));
 - ii. A position paper for general distribution, describing the result of the Study (5 pages max. A4 Times 11);
 - iii. Multimedia contributions, including dissemination activities about the Study on social media channels.
2. Subsequently, the Third Parties shall present their Study and related Results at the ATTRACT Final Conference in Brussels at a date to be determined by the Consortium Partners.
3. The Third Parties shall attend workshops with other funded Study consortia to find synergies and ensure coherence across the different activities.
4. In addition, the ATTRACT Consortium may invite representatives of the Third Parties to present their Studies to participants in the ATTRACT Student Programs.

Article 3: Grant and Payment

1. For the implementation of the Study the Coordinator shall pay to the Third Parties Coordinator a total fixed amount of 125.000 EUR (“**Grant**”) within 30 days of signature of this Agreement. It is

the responsibility of the Third Parties Coordinator to distribute the Grant to the Third Parties in accordance with any arrangement agreed among them.

2. The Coordinator, in coordination with the European Commission, reserves the right to claim back all or part of the Grant in the event that the Third Parties do not submit all of the Deliverables in the required format or on the prescribed dates.
3. Subject to the payment of the Grant funding pursuant to this Article 3, any costs or expenses incurred by the Third Parties in the execution of the Study shall be exclusively for their account, without liability for the Consortium Partners.

Article 4: Monitoring and Acceptance

The Consortium Partners, including through the PCB, will periodically monitor the progress of the Study. Such monitoring may include face-to-face meetings and site visits. Acceptance of the Deliverables shall be in accordance with the procedure set out in the document “Proposal Guidelines and Proposal Template”.

Article 5: Intellectual Property

Subject to Article 10, the provisions of the Grant Agreement governing the ownership, use and access to Intellectual Property (Articles 23a to 31 of the Grant Agreement) shall apply *mutatis mutandis* to the Third Parties.

Article 6: Warranties

The Third Parties Coordinator warrants, and shall ensure that each Third Party also warrants, that:

- a) each Third Party has, and shall maintain for the term of this Agreement, full power and authority and all necessary licenses and consents to enter into this Agreement and perform all of its obligations under it; and
- b) there are no actions, claims or proceedings pending or threatened against a Third Party that could or do adversely affect the performance of its obligations under this Agreement.

Article 7: Liability

1. The Consortium Partners shall have no liability to the Third Parties in relation to the subject matter of this Agreement except for the payment of the Grant as set out in Article 3.
2. The liability of the Third Parties to the Consortium Partners in relation to the submission of the Deliverables shall be limited to the amount of the Grant. Such limitation shall not diminish the liability of a Third Party for:
 - a violation of any EU rule, regulation or other instrument referred to in this Agreement;
 - fraud, acts of gross negligence or wilful misconduct; or
 - any breach of intellectual property rights of third parties, including a breach of confidentiality.

The Third Parties shall indemnify and hold the Consortium Partners harmless from and against any loss, liability, repayment or damages of any kind that result from or arise out of any of the foregoing, in particular where this has an effect on the Consortium Partners’ obligations under the Grant Agreement.

3. Article 46 of the Grant Agreement shall apply *mutatis mutandis* to this Agreement, such that the European Commission shall have no liability to the ATTRACT Third Parties.

Article 8: Use of images, logos and names of the Consortium Partners

1. Each Party may refer to and make known the name and nature of the Study, including the names of the Parties involved, for the purposes of the Study.
2. Notwithstanding the foregoing, the Third Parties shall not use or make reference to the image or logo of any of the Consortium Partners without the prior written permission of the Consortium Partner concerned. Any such permission may be withdrawn by the Consortium Partner concerned at any time, and in any event shall expire upon termination of this Agreement.

Article 9: Obligations originating from the EU

The Third Parties shall be subject to the following obligations as set out in the Grant Agreement:

1. Dissemination and Communications (Article 38 of the Grant Agreement)
 - a) The provisions of the Grant Agreement governing promotion, publicity and communication shall apply to this Agreement. In particular, all communication activities (including in electronic form and via social media), as well as any infrastructure, equipment and major Results financed under this Agreement, shall display the EU emblem and include the following text:
 - for communication activities: *‘This is part of ATTRACT that has received funding from the European Union’s Horizon 2020 Research and Innovation Programme’*;
 - b) The Consortium Partners and the EU may use the Third Parties’ Deliverables and names for the purposes of communication and publicity, including storage and archiving.
2. Conflict of interest (Article 35 of the Grant Agreement)
 - a) Each Third Party shall take all measures necessary to prevent a situation arising where the impartial and objective implementation of this Agreement is compromised for reasons involving economic interests, political or national affinity, family, personal life or any other shared interest.
 - b) The Third Party(ies) concerned shall notify the Coordinator, through the Third Parties Coordinator, without delay of any situation constituting or likely to lead to a conflict of interest (including changes of ownership) and shall immediately take all steps necessary to rectify this situation. The Coordinator, through the Third Parties Coordinator, may instruct the Third Party(ies) concerned to take specific measures to remedy the situation.
3. Ethics and research integrity (Article 34 of the Grant Agreement)
 - a) The Third Parties shall carry out the Study in compliance with ethical principles.
 - b) The Third Parties shall carry out the Study for peaceful purposes only.

- c) The Third Parties shall comply with the highest standards of research integrity — as set out, for instance, in the European Code of Conduct for Research Integrity¹¹.

Inter alia, this means that each Third Party shall ensure that persons carrying out research tasks:

- (i) present their research goals and intentions in an honest and transparent manner;
- (ii) design their research carefully and conduct it in a reliable fashion, taking their impact on society into account;
- (iii) use techniques and methodologies (including for data collection and management) that are appropriate for the field(s) concerned;
- (iv) exercise due care for the subjects of research — be they human beings, animals, the environment or cultural objects;
- (v) ensure objectivity, accuracy and impartiality when disseminating the Results;
- (vi) allow — as much as possible and taking into account the legitimate interest of the Third Party(ies) concerned — access to research data, in order to enable research to be reproduced;
- (vii) make the necessary references to their work and that of other researchers;
- (viii) refrain from practicing any form of plagiarism, data falsification or fabrication;
- (ix) avoid conflicts of interest and misrepresentation of credentials or other research misconduct.

In addition, before starting any activity that raises an ethical issue, the Third Party(ies) concerned shall submit to the Coordinator, through the Third Parties Coordinator, a copy of:

- any ethics committee opinion required under applicable laws, and
- any notification or authorisation for activities raising ethical issues required under applicable laws.

4. Obligation to provide information and keep records (Article 18 of the Grant Agreement)

- a) Each Third Party shall, at all times during the implementation of this Agreement, provide any information requested by the Coordinator, through the Third Parties Coordinator, in relation to this Agreement.
- b) Each Third Party shall keep, for a period of at least five (5) (years after the payment of the balance of the Grant Agreement, records and other supporting documentation relating to the implementation of this Agreement, in particular records and other supporting documentation on scientific and technical implementation and on the price charged and the costs incurred by any Third Party.
- c) Each Third Party shall keep its original documents. Digital and digitalised documents are considered originals if so recognised under Belgian law. In the event of on-going checks, reviews, audits, investigations, litigation or other pursuits of claims in respect of this Agreement, each Third Party shall keep its records and other supporting documentation relating to the implementation of this Agreement until the end of such procedures.

5. EU checks, reviews, audits and investigations (Article 22 of the Grant Agreement)

Should the EU, including as represented by the European Court of Auditors or the European Anti-Fraud Office (OLAF), decide to carry out a check, review, audit or investigation, the Third Party(ies) concerned shall make available all its information, records and other supporting documents relating to the implementation of this Agreement. Should there be an on-the-spot visit by the EU or its representatives, the Third Party(ies) shall allow access to its premises and shall ensure that any information requested in relation to the Study is readily available.

¹¹ The European Code of Conduct for Research Integrity of ALLEA (All European Academies) and ESF (European Science Foundation) of March 2011.
http://www.esf.org/fileadmin/Public_documents/Publications/Code_Conduct_ResearchIntegrity.pdf

6. EU impact evaluation (Article 23 of the Grant Agreement)

Should the EU carry out an impact evaluation of the Grant Agreement, the Third Parties shall make available all information, records and other supporting documents relating to the implementation of the Study.

7. Confidentiality (Article 36 of the Grant Agreement)

The provisions of the Grant Agreement governing confidentiality shall apply *mutatis mutandis* to the Third Parties.

Article 10. Dissemination and Communication of Results

1. Subject to Article 5, the Third Parties shall strive to disseminate jointly the Results generated under the Study and shall ensure Open Access to all their resulting scientific publications. The copyright in any article shall be vested in the Third Party(ies) having contributed to that article.
2. Any dissemination shall expressly mention that the Consortium Partners are not responsible for any use that may be made of the Results.
3. Notwithstanding any intellectual property rights in the Deliverables by the Third Parties, the Third Parties agree to the dissemination of the Deliverables, in whole or in part, by the Consortium Partners at the ATTRACT Final Conference in Brussels and beyond.
4. Any communication by the Third Parties shall expressly mention that it only reflects the Third Parties' views and not necessarily those of the Consortium Partners.

Article 11. Entry into force and Termination

1. The Third Parties Coordinator shall sign this Agreement on behalf of the Third Parties fifteen (15) days of receipt of this Agreement. This Agreement shall enter into force upon signature by the Third Parties Coordinator.
2. This Agreement shall terminate upon completion of the Study, as evidenced by the acceptance of the Deliverables and the presentation at the ATTRACT Final Conference in Brussels, as referred to in Article 2.2.
3. Either Party may terminate this Agreement with immediate effect by giving written notice if the other Party is in material breach of its obligations and such breach either cannot be remedied, or, where such breach is capable of remedy, is not so remedied within thirty (30) days of notice being given.
4. The Coordinator may terminate the participation of a Third Party by written notice to the Third Parties Coordinator concerned, if a change to that Third Party's legal, financial, technical, organizational or ownership situation is likely to adversely affect or delay the Study or calls into question to award the Grant in respect of that Third Party. The remaining Third Parties shall remain liable for carrying out the Study in accordance with this Agreement.
5. The Consortium Partners, acting through the Coordinator, may terminate this Agreement with immediate effect, if,
 - a) implementation of the Study is prevented by force majeure and either:
 - (i) resumption is impossible, or

- (ii) the necessary changes to this Agreement would call into question the decision to award the Grant or breach the principle of equal treatment of applicants in the award procedure;
 - b) a Third Party is declared bankrupt, wound up, has its affairs administered by the courts, enters into an arrangement with creditors, suspends or has its business activities suspended, or is subject to any other similar proceedings or procedures under national law;
 - c) a Third Party (or a natural person who has the power to represent or take decisions on a Third Party's behalf) has been found guilty of fraud, corruption, involvement in a criminal organization, professional misconduct, proven by any means;
 - d) a Third Party does not comply with any applicable national laws on taxes or social security.
6. In the event that this Agreement is terminated by the Consortium Partners, acting through the Coordinator pursuant to Articles 11.3, 11.4 or 11.5, the Third Parties shall be liable for the repayment of all or part of the Grant to the Consortium Partners, via the Coordinator.

Article 12. Survival of Articles

Articles 5 to 14 of this Agreement shall survive the termination of this Agreement (including termination of participation of an individual Third Party) or, where applicable, for the time period mentioned therein.

Article 13. Mandatory laws, governing law and dispute resolution

1. The Parties shall comply with the laws applicable to them, including the legal framework governing data privacy protection.
2. The terms of this Agreement shall be interpreted in accordance with their true meaning and effect. If this Agreement is silent on a matter, or if any of its terms is ambiguous or unclear, then in those circumstances only and not in respect of this Agreement as a whole, reference shall be made to Belgian substantive law.
3. Nothing in this Agreement shall be deemed or interpreted as a waiver, express or implied, of any privileges and immunities accorded to any of the Parties under its constituent documents or under international law.
4. The Parties shall endeavour to settle any disputes in respect of this Agreement amicably. Any such dispute, controversy or claim, including, without limitation, its formation, validity, binding effect, interpretation, performance, breach or termination, as well as non-contractual claims, that cannot be settled amicably shall, upon the filing of a request for arbitration by either Party, be referred to and finally determined by a single arbitrator in accordance with the WIPO Expedited Arbitration Rules. The place of arbitration shall be Brussels, Belgium and the language used in the arbitral proceedings shall be English, unless otherwise agreed upon. The arbitration award shall be final and binding on the Parties.

Article 14. Assignment

Neither Party shall assign this Agreement in whole or in part to a third party.

For the Coordinator
Markus Nordberg, ATTRACT Project Coordinator

For the Third Parties Coordinator
NAME, POSITION OF SIGNATORY

In.....

In.....

On.....

On.....

Annex 1: Project proposal

ANNEX 1 to this Guide for Applicants: Power of Attorney Template

NOTE: Power of Attorney Template for use by the Third Parties, authorizing the Third Parties Coordinator submitting the project proposal and signing the ATTRACT Third Party Project Agreement on their behalf, in the event that their application is successful.

The template Power of Attorney should be read in conjunction with the ATTRACT Third Party Project Agreement in this Guide for Applicants. Third Parties are free, but not obliged to use this specific template. They may adjust this specific template in accordance with their own legal requirements or, alternatively, choose to use a different format.

Although Third Parties are not obliged to use this specific template, it is essential that they provide written confirmation that their Third Parties Coordinator has authority to submit the project proposal and sign the ATTRACT Third Party Project Agreement on their behalf, in the event that their application is successful.

POWER OF ATTORNEY

(To be printed on letterhead of the Third Party executing the Power of Attorney, not of the Third Parties Coordinator)

[Name of Third Party], [address] hereby confirms and acknowledges that

shall be the representing entity (“Third Parties Coordinator Organization”) of the entities participating in the ATTRACT Third Party Project entitled “[Name of the Project]” (the “Project”) which, in addition to the Third Parties Coordinator, shall be

• ...
• ...
• ...

(the “Third Parties”).

In this capacity, the Third Parties Coordinator shall be the leader and authorized representative of the Third Parties for all matters relating to the Project. It shall be authorized *inter alia* to submit the project proposal and sign the Third Party Project Agreement and accept all rights and obligations contained therein for and on behalf of the Third Parties.

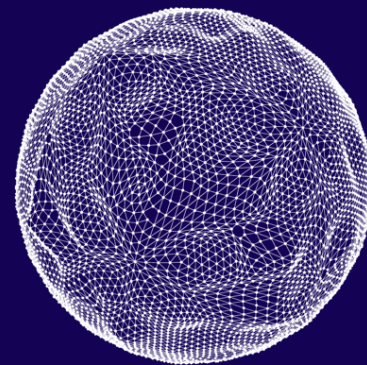
For [Name of Third Party]

Name:

Place:

Date:

Signature of the authorized person from the Coordinating organization:



ATTRACT2

Guide for Applicants

Submission of Student Programs Proposals

ATTRACT Phase 2 Student Program - Call for Proposals

This ATTRACT Phase 2 Open Call for Master's level student programs offers a unique funding opportunity for interdisciplinary Study Courses aiming at prototyping societal innovations inspired by the breakthrough detection and imaging technologies developed under the ATTRACT initiative.

Therefore, interested legal entities are invited to submit proposals for Student Programs that will be conducted in liaison with the ATTRACT Consortium Partners, and facilitate the extension and scaling of the knowledge already gained during the ATTRACT Phase 1 student pilots¹.

ATTRACT

The goal of ATTRACT is to establish a systematic framework to transform breakthrough technologies, developed from fundamental research purposes into breakthrough innovations that can be turned into sound industrial applications and provide added value for society.

ATTRACT has been initiated by nine European entities (the ATTRACT Consortium):

- European Organization for Nuclear Research (CERN),
- Aalto Korkeakoulusäätiö SR (AALTO),
- ESADE Ramon Llull University (ESADE),
- ESRF – The European Synchrotron (ESRF),
- European X-Ray Free-electron Laser GmbH (European XFEL),
- European Molecular Biology Laboratory (EMBL),
- European Southern Observatory (ESO),
- Institut Max von Laue Langevin – Paul Langevin (ILL),
- European Industrial Research Management Association (EIRMA).

CERN is the ATTRACT Coordinator.

More information on ATTRACT and the ATTRACT Consortium can be found at <https://attract-eu.com/>.

European Union funding

ATTRACT receives funding under the European Union's Horizon 2020 Research and Innovation programme under the Horizon 2020 grant agreement number 10100426 (<https://attract-eu.com/>). However, the European Union is not involved in the ATTRACT Open Call.

The ATTRACT Phase 2 Student Program Open Call should be read in conjunction with the following documents:

- ATTRACT Phase 2 Student Program Open Call - Proposal Template (Annex 1)
- ATTRACT Phase 2 Student Program Open Call - Evaluation Criteria (Annex 2)
- ATTRACT Phase 2 Student Program Open Call - Third Party Student Program Agreement (Annex 3)
- ATTRACT Phase 2 Student Program Open Call - Example of Proposal Scenario (Annex 4)
- Grant Agreement Number 101004262

PART 1 – ATTRACT PHASE 2 Student Programs and the ATTRACT Academy

Expanding on the successful 'Young innovators and entrepreneurs'- pilot from ATTRACT Phase 1, the ATTRACT Academy has been created aiming to strengthen bridges between European Research Infrastructures (ERIs)³, innovation ecosystems and the university students. Here, the role of the universities is key in providing the right kind

¹ <https://phase1.attract-eu.com/showroom/student-projects/>

² Provided as a separate document to Guide for Applicants.

³ https://ec.europa.eu/info/research-and-innovation/strategy/european-research-infrastructures_en

of educational environment. The Student Programs are encouraged to utilize Passion Based Learning (PBL) courses using Design Thinking as the central methodology⁴.

The aim is to teach interdisciplinary teams composed of students from different study backgrounds, e.g. Engineering, Business and Design, to develop novel, societally relevant applications by exploring the potential of different technologies developed within the ATTRACT funded projects.

Towards this objective eleven (11) successful proposals will receive funding in accordance with two different modalities, depending on the deliverables to be produced by the students and their workload (explained below in Part 2 – C. Proposal Content).

Definitions:

ATTRACT Academy: The ATTRACT Academy comprises all Master’s level student activities in ATTRACT Phase 2.

ATTRACT Academy Facilitator: Aalto Design Factory is the ATTRACT Academy Facilitator. The ATTRACT Academy Facilitator oversees the activities of the ATTRACT Academy, organizes the ‘Trainers’ Workshops’ for all selected proposals of the call, and coordinates the ATTRACT Academy common events for the students. The selected Program Consortia will submit all deliverables to the ATTRACT Academy Facilitator.

ATTRACT Third Party Projects: The ATTRACT Third Party Project are technology projects that were funded in ATTRACT Phase 1 (170 projects in total), or those to be funded in ATTRACT Phase 2 for breakthrough innovations in detection and imaging technologies. Students will use these technologies as an inspiration for developing societal innovations. Selected ATTRACT Third Party Projects will interface with the Student Projects.

Liaison Organisation: Liaison means working in a coordinated manner such as the sharing of methodologies, the organization of activities for all of the students involved and eventual physical and/or virtual meetings. To ensure sufficient sharing of learnings and best practices while upscaling from ATTRACT Phase 1, each Student Program must run in liaison with one of Aalto Design Factory⁵, Fusion Point at ESADE⁶ and IdeaSquare at CERN⁷. The Liaison Organisation for each Student Program is indicated in tables XXX below.

Program Consortium: A Program Consortium is a group of at least two legal entities that have the goal to complete a Student Program, if awarded funding under this Call.

Program Coordinator: The Program Coordinator forms part of Program Consortium and is responsible for submitting the proposal for the Student Program, and, if selected, submitting deliverables to the ATTRACT Academy Facilitator on time, being the contact point for the ATTRACT Academy Facilitator, monitoring student activities, and organising activities within their Student Program.

Study Course: A Study Course is an academic course taught at Master’s level which forms part of a Student Program. Study Courses must be interdisciplinary and consist of one or several Student Projects. Exceptionally, courses be open to bachelor and doctoral level students as long as the Study Course objectives are met in accordance with the criteria set by in this Guide for Applicants.

Student Program: Student Programs are Master’s level Study Courses that that have been selected for funding in the frame of the ATTRACT Phase 2 Student Program Open Call.

Student Project: A Student Project refers to the work being executed in a given Student Program by an interdisciplinary student team working on a technology being developed by the ATTRACT funded technology projects.

⁴ https://issuu.com/aaltodesignfactory/docs/passion-based_co-creation

⁵ <https://designfactory.aalto.fi/>

⁶ <https://www.esade.edu/en/about-us/campus/barcelona-sant-cugat/spaces/fusion-point>

⁷ <https://ideasquare.cern/home>

PART 2 – Participation Criteria and administrative instructions

A. Participation criteria

Participation in the ATTRACT Phase 2 Open Call for Student Programs is **open to all legal entities** having their seat in EU or H2020-Associated Countries⁸.

- Participation is subject to each legal entity having a **validated Participant Identification Code (PIC)** granted by the European Commission under its registration process at <https://ec.europa.eu/research/participants/portal/desktop/en/organisations/register.html>, **at the time of the signature of the ATTRACT Third Party Student Program Agreement.**

In the event that at the time of the launch of the ATTRACT Phase 2 Open Call for Student Programs a legal entity does not yet have a PIC, it is advised to immediately start the process of obtaining such PIC from the European Commission. Please note that the process for obtaining a validated PIC may take up to three months.

- This ATTRACT Phase-2 Open Call for Student Programs will only accept proposals that have peaceful purposes.
- The Submitting Program Consortium needs to have a proven **track record** in the domain of utilizing PBL in interdisciplinary education. The applying Program Consortium has to demonstrate their previous experience on Design Thinking-based Student Projects that are done in collaboration with ERIs. To demonstrate sufficient previous support and peer learning opportunities the applying organizations are to be part of design education+-based networks⁹.
- Student Program proposals shall be submitted as a **joint proposal** by a group of two or more independent legal entities (group of participants). However, a legal entity may participate in more than one proposal across the above Student Programs, but the same group of participants may submit only **one proposal for a given Student Program**. The same group of participants may, however, submit a different proposal for another Student Program. The submitting consortium may not change the modality of the Student Program that they are applying for.
- In each of the ATTRACT Student Programs, Study Courses must be taught at Master's level. The IRC-SP may decide to also consider and accept proposals including courses open for Bachelor and Doctoral level students. All students participating in Student Programs must be 18 or older.
- To ensure a smooth transition of the learnings from ATTRACT Phase 1 student pilots to the ATTRACT Phase 2 Academy, the proposal must demonstrate how they intend to liaise with the Liaison Organisations.
- Each group of participants is free to organise itself in a manner it deems appropriate. However, it shall in all cases designate and mandate a Program Coordinator who shall be authorised by all participants to act in their name and on their behalf as regards the
 - Submission of the Student Program proposal,
 - Signature of the ATTRACT Third Party Student Program Agreement,
 - All matters arising in the context of and relating to the ATTRACT Third Party Student Program Agreement

The Program Coordinator shall have the authority to bind all members and shall act as the sole intermediary between the other group participants and the ATTRACT Academy Facilitator and the ATTRACT Coordinator, as established in a power-of-attorney¹⁰ and to be completed and signed by each Program Consortium member. **The power of attorney must be included as an annex of the proposal at the time of submission.**

Student Program proposals by groups of participants which do not meet the above participation criteria will not be evaluated.

⁸ https://ec.europa.eu/research/participants/data/ref/h2020/other/wp/2018-2020/annexes/h2020-wp1820-annex-a-countries-rules_en.pdf

⁹ Examples of design education networks – Design Factory Global Network, SUGAR-network, Challenge Based Innovation -network etc.

¹⁰ A template is provided as an annex in this Guide for Applicants.

B. Program Proposal length and format

- Student Program proposals shall use the ATTRACT Student Program proposal template¹¹
- Student Program proposals shall be a maximum of five A4 pages in length, not including the title page, the Student Program Public Summary and Student Courses Overview Table.
- Scientific or Technical Annexes are not allowed, except for the signed Powers of Attorney documents.
- The font type shall be Times New Roman with a minimum font size of 11.
- The page margins shall be 1.5 cm on all sides.

Student Program proposals not complying with the length, font size and format conditions will not be evaluated.

C. Proposal content

Project proposals must comply with the ATTRACT Phase 2 – Student Program Proposal Template. A detailed overview of all Student Programs and the respective timeline is set out in Part 2 – D. Overview of Student Programs below.

Project proposals may be submitted in any of the two modalities listed below:

MODALITY A: OPPORTUNITIES (80,000 € per Student Program)

Student Programs in this modality are for Study Courses based on design thinking methodologies that have a workload of five to nine credits in the European Credit Transfer System (ECTS) or equivalent. During the courses in Modality A, each interdisciplinary student team is expected to develop a tangible solution demonstration, experiment or prototype that showcases the novel use of ATTRACT technologies to solve societal challenges.

The students will learn to work in a ‘non-linear’ mode by first establishing a clear societal need and subsequently identifying potential societal innovations from the breakthrough technologies inspired by the ATTRACT Third Party Projects.

Student Projects done in Modality A Student Programs also aim to inspire and support the Student Projects done in Modality B Student Programs (see below) by generating intermediate knowledge that can be used to accelerate their progress.

MODALITY B: PRODUCT SOLUTIONS (240,000 € per Student Program)

Student Programs in this modality are for Study Courses that utilise PBL and Design Thinking as a teaching methodology and have a workload of ten or more credits in the ECTS or equivalent. Study Courses offering fewer ECTS can be included along with a Study Course offering more than 10 ECTS to the Program proposal, only if the deliverables criteria required for this Modality can still be met.

Interdisciplinary teams, over the duration of the course, are expected to design a functional proof of concept level prototype¹² which clearly demonstrates system level implementation of the novel application of the ATTRACT funded technologies. The students will work closely with the ATTRACT Third Party Project groups and scientists to develop their solutions through several rounds of hands-on prototyping while actively engaging in user testing.

¹¹ Provided in this Guide for Applicants.

¹² A functional prototype can be defined as a high-fidelity model or functioning product that is produced to realize a design solution. The prototype is at a level where it would be tested and evaluated before the product is considered for production.

D. Overview of Calls for Student Projects

Student Program	Modality	Criteria for Study Courses	Round 0¹³	Round 1	Round 2	In liaison with
SP-1	B	<ul style="list-style-type: none"> In the Study Courses in this Student Program, the student teams must consist of members from at least two different legal entities. Student teams will work closely with an ATTRACT Third Party Project and produce a Proof-of-Concept prototype as solution to the given design challenge. Courses must focus on product design and development and include training in safety, electronics, additive manufacturing, performance finance. Students must have the autonomy to manage their budgets themselves and do necessary acquisitions independently. The student teams will travel at least twice over the period of the course to meet up with each other and their clients. 	Early January 2022 - End of May 2022	Early September 2022 - End of May 2023	Early September 2023 - End of May 2024	Aalto Design Factory
SP-2	B	<ul style="list-style-type: none"> In the Study Courses in this Student Program, each student team must work in close collaboration with a team from another university towards a shared final concept. Student team pairs must work iteratively on prototypes on a weekly basis, according to the Stanford Design Thinking Process¹⁴ leading up to final Proof of Concept prototypes to a given design challenge. On top of the general Design Thinking, the teaching must cover management practices of design and business. Each of the student teams in this program are provided with a faculty mentor to teach, coach, and support the teams on the application of the program methodology to the real-life brief. 	Early January 2022 - End of May 2022	Early September 2022 - End of May 2023	Early September 2023 - End of May 2024	Aalto Design Factory
SP-3	A	<ul style="list-style-type: none"> The Study Courses in this Student Program must focus on engineering through Design Thinking. Over the Study Courses in this Student Program, interdisciplinary student teams tackle societal challenges with hardware prototyping techniques. This program promotes understanding how the students own study field connects to a variety of economic, environmental, and societal issues. 		Early September 2022 - End of January 2023	Early September 2023 - End of January 2024	Aalto Design Factory

¹³ Depending on the timeframe of signing the Third Party Student Program Agreement, some Student Programs may be able to have an earlier start if they wish with Round 0. However, the funding for that program will remain as defined by the Modality.

¹⁴ <https://web.stanford.edu/~mshanks/MichaelShanks/files/509554.pdf>

		<ul style="list-style-type: none"> In this program students will become aware of the breadth and impact of the different engineering specialisations, as well as how to work with engineers from different specialisations. The courses in this program must include introductory workshops in prototyping labs so that the students can utilize 3D printing, laser cutting, CNC milling and electronics in their projects. 				
SP-4	A	<ul style="list-style-type: none"> In this program, each Student Project aims to solve a societal challenge with the help of cutting-edge technologies in the field of artificial intelligence (AI). The students will learn to conduct research into the conceptualisation of new products and services adapted to customers. Students will learn to integrate the user experience into the process of developing new products and services applying AI and to integrate social, technical and economic variables to develop systemic solutions. In the Study Courses of this Student Program student teams must have a designated budget for prototyping. 	Early April 2022 -	Early April 2023 -	Early April 2024 -	Fusion Point at EASDE
			End of June 2022	End of June 2023	End of June 2024	
SP-5	B	<ul style="list-style-type: none"> This Student Program is for Study Courses where interdisciplinary student teams discover novel solutions for the future of humankind. The Student Projects are an elaborate mixture, where societal, human-driven needs meet scientific research, guided by the Sustainable Development Goals. Students participating this program must be introduced to rapid prototyping techniques and provided with the necessary lab facilities to produce concepts and prototypes for their projects. In the Study Courses of this Student Program student teams must have a designated budget for prototyping 		Early September 2022 -	Early September 2023 -	Fusion Point at ESADE
				End of December 2022	End of December 2023	
SP-6	A	<ul style="list-style-type: none"> This program is targeted to extensive PBL courses with a proven track record of close collaboration with ERIs where they act as a client for the student team. The aim of the interdisciplinary student teams is to find solutions to societal challenges by utilizing emerging technologies. The projects must include all phases from planning to the production of a fully functional prototype or demonstrator. In the Study Courses of this Student Program student teams must have a designated budget for prototyping. 	Mid-February 2022 -	Mid-February 2023 -	Mid-February 2024 -	Fusion Point at ESADE
			End May 2022	End of May 2023	End of May 2024	
SP-7	B	<ul style="list-style-type: none"> The ATTRACT summer programme is for multidisciplinary teams (BSc, MSc, Phd) working 	Early April	Early April	Early April	IdeaSquare

		<p>to solve societal challenges, benefitting from ATTRACT technologies.</p> <ul style="list-style-type: none"> In this program international collaboration is required (i.e. the Program Consortium is composed of at least two legal entities from different countries), and the different partners should exchange best practices, even if their course methodologies might vary. IdeaSquare will welcome the student teams for a design sprint. 	2022 - End of July 2022	2023 - End of July 2023	2024 - End of July 2024	
SP-8	B	<ul style="list-style-type: none"> In this Student Program (MSc-level), the student teams shall explore different challenges related to the Sustainable Development Goals and explore the ATTRACT technologies looking for one they could match with the chosen challenges. Benefitting from design thinking methodologies the students work towards impactful solutions, complete with a prototype and an implementation plan. International collaboration is expected. The students will visit IdeaSquare to work on their solutions. 	Early January 2022 – Mid-May 2022	Early October 2022 - Mid-May 2023	Early October 2023 - Mid-May 2024	IdeaSquare
SP-9	B	<ul style="list-style-type: none"> Over the courses in this Student Program, multidisciplinary student teams (MSc-level) use design thinking methodologies to create empathetic solutions to societal challenges inspired by ATTRACT technologies. The students shall ideate on as many solutions as possible, and then choose one they want to work on, benefitting from ATTRACT technologies. The students will visit IdeaSquare for a design sprint. 	Early March 2022 - End of June 2022	Early March 2023 - End of June 2023	Early March 2024 - End of June 2024	IdeaSquare
SP-10	B	<ul style="list-style-type: none"> This program is for courses that serve as a validation and development environment aiming at building solutions inspired by ATTRACT technologies for corporate and societal challenges. The focus is on entrepreneurship and collaboration with start-up and innovation ecosystems. Student teams are working in cycles of 6 months on a selected project and those projects can have more than one cycle. After the completion of these courses the student teams in sufficient readiness level will be offered the opportunity to continue in a start-up acceleration program. 	Mid- January 2022 - End of June 2022	Mid-January 2023 - End of June 2023	Mid-January 2024 - End of June 2024	Aalto Design Factory
SP-11	A	<ul style="list-style-type: none"> The goal of this course is designing the society of the future based on the Novel Methodology of Multiverse Thinking. Inspired by the ATTRACT Third Party Projects technologies, the student teams will extrapolate forward about how those technologies might evolve in the far future and will 		Early May 2022 – End of July 2022	Early May 2023 – End of July 2023	IdeaSquare

		<p>address societal challenges such as energy resources, population growth/decline, justice, democracy, etc.</p> <ul style="list-style-type: none">• The student teams will choose what aspects and variables would like considering and by learning and exercising exponential and system thinking will develop a technological narrative about the future prototype in video format.				
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D. Student Program Proposal submission process and deadline

Student Program proposals and the powers of attorney shall be submitted by the Program Coordinator in one **single PDF document**, exclusively through the ATTRACT website habilitated for this purpose¹⁵.

Deadline for submission of the Student Program proposals: 20 September 2021 at 23:59 hrs (CET)

Please note that it will not be possible to upload Student Program proposals after the deadline.

Student Program proposals by participants submitted after the deadline or otherwise non-compliant with these Proposal Guidelines will not be evaluated.

Any personal data submitted as part of the Student Program proposals will be processed in accordance with the applicable legal framework.

E. Administrative assistance

Enquiries regarding administrative assistance during the submission process shall be raised exclusively to the ATTRACT Project Administrative Office (PAO) at to the ATTRACT Project Administrative Office (PAO) at ATTRACT-PAO@cern.ch and/or questions@attract-eu.com.

Submitting Program Consortia must NOT contact the Liaison Organisations for assistance in the proposal preparation. Any attempts to request such assistance prior to the proposal submission or during the evaluation process will lead to the disqualification of the submitted proposal.

PART 3 - Proposal Evaluation

A. Evaluation process, evaluation criteria and scoring

All Student Program proposals received by the prescribed deadline will be evaluated in two steps, in a transparent and non-discriminatory manner:

Step 1: Compliance with the participation criteria and administrative instructions

Compliance of the participants and their Student Program proposals with the participation criteria and administrative instructions set out will be evaluated by the PAO.

The PAO is composed of administrative staff of the ATTRACT Consortium members.

Proposals that do not meet the participation criteria, or do not comply with the prescribed administrative instructions, will not be evaluated further as regards their contents.

Step 2: Evaluation of the contents of the Student Program proposals

Student Program proposals that have successfully passed evaluation step 1 will proceed to step 2 in which their contents will be evaluated by the Independent Review Committee for Student Programs (IRC-SP), in accordance with the criteria and the scoring modalities set out in the ATTRACT Student Program Call Evaluation Criteria (Annex 2).

The IRC-SP is composed of top educational, design and ERI experts that are independent from the ATTRACT Consortium members. The list of IRC-SP members and information about their fields of expertise can be found here¹⁶.

B. Student Program proposal ranking

¹⁵ <https://attract-eu.com/>

¹⁶ <https://attract-eu.com/committees/>

Based on the evaluation of each proposal, the IRC-SP will give a final score for each Student Program and establish a ranking of the Student Programs for funding.

The ATTRACT Consortium, based on the final judgement of the IRC-SP, reserves the right to redistribute and/or share the funding among awarded competing proposals in each of the Modalities.

C. Notification of evaluation results

Each Program Coordinator will receive a notification by email from the PAO, of the result of the IRC-SP evaluation within 3 months of the Call submission deadline.

The final list of funded proposals and their executive summaries will be made available on the ATTRACT website following the signature of the ATTRACT Third Party Student Program Agreement.

By taking part in the ATTRACT Phase 2 Student Programs Open Call, participants accept the outcome of the IRC-SP evaluation as final and binding. Evaluation results, including the ranking for funding, cannot be contested.

Please note that the IRC-SES is not required to provide unsuccessful applicants with feedback regarding their application.

PART 4 - ATTRACT Third Party Student Program Agreement

Together with the notification of funding, the ATTRACT Project Administrative Office will send to the Program Coordinator of the group of participants the ATTRACT Third Party Student Program Agreement. The ATTRACT Third Party Student Program Agreement establishes the terms and conditions concerning the implementation of the Student Program proposal by the respective groups of participants. **These terms and conditions are non-negotiable and must be accepted at the time of the submission of the Program proposal as part of the ATTRACT Phase 2 Student Project Open Call.**

The Program Coordinator shall sign the ATTRACT Third Party Student Program Agreement on behalf of all participants within 14 calendar days of receipt.

A. Program duration

The duration of each Student Program and the respective Study Courses is set out in Part 2 – D. Overview of Student Programs

B. Funding

Selected Student Programs will be funded in accordance with the modality and deliverable criteria chosen by the applicants at the time of submission.

The grant amount of 80K for Modality A and 240K for Modality B will be transferred to the lead participant as a single lumpsum payment within 30 days of the signature of the ATTRACT Third-Party Socio-Economic Study Agreement.

All funding, including any travel costs, must be used to generate the deliverables for set out in D. Deliverables and presentation of funded Student Programs below. Only the Program Coordinator is allowed to claim personnel costs from the funding received for the Student Program. The personnel costs are capped at 15% of the total funding awarded to the Student Program. Costs incurred beyond the funding granted for each Student Program will not be reimbursed.

Each Student Program is designed to accommodate 10 Student Projects over the duration of ATTRACT Phase 2. Only the costs directly related to the ATTRACT Academy will be eligible.

C. Program monitoring

The ATTRACT Academy Facilitator and PAO will ensure that the following monitoring actions are taken through the Student Program duration. The monitoring action will entail the provision of periodic reports as well as a final report per Student Program that will be collected by the ATTRACT Academy Facilitator. The frequency and format of the periodic and final reports will be agreed previous to the start of each Student Program between the awarded consortium and the ATTRACT Academy Facilitator.

D. Deliverables and presentation of funded Student Programs

All funded Student Programs are required to generate the following deliverables (in English) by the completion of each Study Course.

Deliverables marked with an asterisk (*) are public deliverables.

Modality A	Modality B
<ul style="list-style-type: none">● Student information document for every Study Course in the Student Program to be submitted to the ATTRACT Academy Facilitator.● Course feedback form.● A tangible solution demonstration, experiment or prototype for each of the 10 Student Projects¹⁷.*● A brief Student Project report covering the project context and the description of the final solution for each of the 10 Student Projects.*● A poster for each of the 10 Student Projects.*	<ul style="list-style-type: none">● Student information document for every Study Course in the Student Program to be submitted to the ATTRACT Academy Facilitator.● Course feedback form.● Proof of Concept (PoC) functional prototype of a tangible product or service solution to the design challenge for each of the 10 Student Projects.¹⁸ *● A student team poster/flyer for each of the 10 Student Projects. *● Student Project poster for each of the 10 Student Projects. *● A comprehensive Student Project report, covering the evolution of the design and the description of the final solution (min. 5000 words) for each of the 10 Student Projects. *● Teaser video showcasing the final prototype for each of the 10 Student Projects. *● Participation in the ATTRACT Final Conference.

The ATTRACT Academy Facilitator may contact the Program Coordinators for any other information related to the Student Programs at a later point, if required.

Students from selected funded Student Programs may be invited to present their results at the ATTRACT Final Conference in Brussels and/or at common events such as the ATTRACT Academy Gala organised at the end of the academic year at the premises of one of the Liaison Organisations.

The travel costs for the students to attend common events are to be covered by the funding received from ATTRACT. The dates will be announced well in advance by the ATTRACT Consortium.

D. Open Access and dissemination of deliverables

¹⁷ For example, Project SWaP from ATTRACT Phase 1 - <https://attract-eu.com/showroom/student-projects/project-swap/>

¹⁸ For example, Project Heimdall from ATTRACT Phase 1 - <https://attract-eu.com/showroom/student-projects/project-heimdall/>

All participants must ensure Open Access to any publications concerning their Student Programs. Notwithstanding any intellectual property rights in the public deliverables by the participants of a Program Consortium, all participants agree to the dissemination of the deliverables, in whole or in part, by the ATTRACT Consortium at the ATTRACT Final Conference in Brussels and beyond.

IMPORTANT NOTE ABOUT DOUBLE FUNDING

All applicants should be aware that if their project proposals or activities included therein are already receiving EU funding, they are not eligible for the ATTRACT Phase 2 Call.

In order to get more information about the double funding principle applicants should consult <http://ec.europa.eu/social/BlobServlet?docId=1922&langId=en>

The applicants bear full responsibility to ensure that no activity in the submitted project proposal is already receiving EU funding. The ATTRACT Consortium encourages the applicants to consult with the coordinators of the EU-funded projects that their organizations are benefiting from and/or the responsible persons within their respective organizations.

ATTRACT Phase 2 Student Program Call - Proposal Template



Student Program
Proposal Title and Acronym
(Indicate the proposal title and acronym)

This proposal responds to Student Program:
(Indicate Student Program number according to the ones mentioned in the ATTRACT Phase 2–Call for Student Program Proposals)

Program Coordinator’s name and email address
(Indicate the submitting author’s name and e-mail)

Program Consortium Composition Table

	Organization full name	Organization short name / PIC number ¹⁹	Organization type ²⁰	Contact person name	Contact email	person
Coordinator						
Partner 2						
Partner 3						
...						
...						

¹⁹ 9-digit Participant Identification Code

²⁰ Research Infrastructure, University, SME, Large Corporation, Research & Technology Organization, Start-up. If other, please specify.

Student Program Public Summary

The Student Program summary is limited to 300 words. It should contain the main objectives as well as a brief explanation of the novelty and benefits of the Student Program.

ATTRACT Student Courses Overview Table

The ATTRACT Student Program includes one or several Master's level courses sharing similar methodologies. Please indicate the details on the chart below.

	Course name	Course short name	<u>Indicate start and end dates annually</u>	ECTS²¹	Estimated # of students²²	Contact person name and email	Responsible Organisation
Course 1							
Course 2							
Course 3							
...							
...							

1. Brief Course Descriptions

Course #

Please copy this heading for each course you are running within the Student Program. Indicate in the heading the course number as detailed in the Course Overview Table. Provide a brief course summary of each of the courses. It should contain the main objectives as well as an overview of how the course will be run. (Max. 100 words per course)

2. Student Program Methodology and Desired Outcomes

Describe in detail the methodology this Student Program utilises to achieve the desired outcomes as described in the guide for applicants (see Part 2 - Section B). What is the envisioned innovation potential of this Student Program?

3. Collaboration plan within Student Program and with the liaison organisation

Describe the plan for collaboration within the partners of the Program consortium, for example, common events, knowledge transfer, peer coaching, exchange of methodologies, wider student interactions within the ATTRACT Student Program. Describe the plan for intended collaboration with the liaison organisation. If you are planning on visiting the liaison organizations, please indicate dates clearly.

4. Student Support and Facilities

Briefly describe the typical study background composition of the student teams. How do you incorporate diversity in the student teams? What kind of learning support and facilities are available to the students in the proposed Student Program? In what way would the students of this Student Program be utilising the networks, international collaborations, and partnerships of your organization?

5. Expertise and Demonstrable Excellence

As course staff, briefly describe your expertise and demonstrable excellence in running courses in collaboration with ERIs. Also, describe your participation in relevant design education networks that you are part of that utilise

²¹ European Credit Transfer and Accumulation System (ECTS). 1 ECTS = Approximately 27 hours of student workload including lectures, assignments, meetings etc.

²² Total number of students expected to participate in the course over the years of ATTRACT Phase 2.

problem-based learning/design thinking methodologies. Please feel free to include links for examples of outcomes from previous courses.

6. Budget Breakdown

This section should describe the costs allocation of the Student Program. The following table should be used:

Nature of the expenses (eg. Personal costs, travelling, prototyping, etc) ²³	Reason for expense	Short name of the consortium organization benefiting	Budgeted cost (in EUR)
E.g. Travel	E,g, Student travel for AFC	E.g. Aalto	##,###
			TOTAL STUDENT PROGRAM BUDGET ###,###

²³ Please be aware that the budget lines should contain costs that are eligible under H2020 rules. See for example: https://ec.europa.eu/research/participants/data/ref/h2020/grants_manual/amga/h2020-amga_en.pdf

ATTRACT Phase 2 Student Program Open Call - Evaluation Criteria

Instructions: Each evaluation question is scored from 1 to 5 (1 lowest score; 5 highest score). This score is then multiplied by the weighting factor to get the points in the section.

Proposal Section 1: Brief Course Descriptions

Evaluation questions:

1. Do the courses described in the Student Program proposal match up to the requirement stated in the description of the Student Program number?

Score weighting factor: x1, Maximum points in section: 5

The scores for the presented courses are averaged for a final score for this section.

Proposal Section 2: Student Program Methodology and Desired Outcomes

Evaluation questions:

1. Does the proposed Student Program introduce methodological approaches that support Passion Based Learning, creativity and innovation?
2. Are the suggested methodologies suitable for enabling the student teams to deliver the outcomes outlined by the modality of the Student Program?
3. Do the proposed Student Program methodologies support product innovation, development of an entrepreneurial mindset and incubation of ideas?

Score weighting factor: x2, Maximum points in section: 30

Proposal Section 3: Collaboration plan within Student Program and with the liaison organisation

Evaluation questions:

1. How well does the proposed Student Program support students' interaction **across** the Student Projects?
2. How well does the proposed Student Program demonstrate intended collaboration with the liaison organisation?

Score weighting factor: x1, Maximum points in section: 10

Proposal Section 4: Student Support and Facilities

Evaluation questions:

1. How well do the Program Consortium members offer an environment and resources suitable for the student teams to prototype and achieve the desired outcomes?
2. How well do these co-creation facilities foster international collaboration and diversity?

Score weighting factor: x2, Maximum points in section: 20

Proposal Section 5: Expertise and Demonstrable Excellence

Evaluation questions:

1. How much knowledge does the Program Consortium possess about connecting student teams with deep-tech innovators and scientists in order to create new products or concepts?
2. How well does the proposal demonstrate a plan for active participation in design education networks?
3. How much potential do the mentioned design education networks have to contribute to the knowledge sharing and support for the benefit of Student Projects done within the Student Program?
4. How much experience in collaboration with European Research Infrastructures (ERIs) does the proposal demonstrate?

Score weighting factor: x1.5, Maximum points in section: 30

Proposal Section 6: Budget Breakdown

Evaluation questions:

1. How well does the planned budget give the student teams opportunities for concrete prototyping?
2. How well does the planned budget give the students teams opportunities to interact with the ATTRACT community?

Score weighting factor: x0.5, Maximum points in section: 5

PROPOSAL FINAL SCORE IS THE SUM OF ALL SECTIONS

ATTRACT Phase 2 Student Program Open Call - Third Party Student Program Agreement

ATTRACT Phase 2 Third Party Student Program Agreement **(For program (name))**

BETWEEN

The entities participating in the ATTRACT-Phase 2 Consortium (“**Consortium Partners**”), represented by **XXX** (“**Coordinator**”),

AND

The entities participating in the Student Program (“**Third Parties**”), represented by **YYY** (“**Third Parties Coordinator**”),

The Consortium Partners and the Third Parties are hereinafter referred to as the “**Parties**” or individually as the “**Party**”; and Third Parties are hereinafter referred to individually as “**Third Party**”,

WHEREAS

The ATTRACT-Phase 2 initiative (ATTRACT) comprises of nine (9) European entities (“**Consortium Partners**”), collaborating under a consortium agreement, with the purpose of establishing a systematic framework to transform breakthrough technologies developed for fundamental research purposes into breakthrough innovations, having strong industrial applications and societal added value. CERN is the Coordinator of ATTRACT.

The Consortium Partners are

- the European Organization for Nuclear Research (CERN);
- the European Molecular Biology Laboratory (EMBL);
- the European Synchrotron Radiation Facility (ESRF);
- the European Southern Observatory (ESO);
- the Fundación ESADE – *ESADE Business and Law Schools* (ESADE);
- the European X-Ray Free-Electron Laser GmbH (European XFEL);
- the Institut Max von Laue-Paul Langevin (ILL);
- the Aalto University (AALTO); and
- the European Industrial Research Management Association (EIRMA).

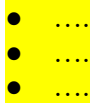
The Consortium Partners receive funding from the European Union for ATTRACT under Grant Agreement no. 10100426 and the Horizon 2020 Framework Programme for Research and Innovation (2014-2020) (“**Grant Agreement**”) ²⁴.

The ATTRACT Independent Review Committee for Student Programs (“**IRC-SP**”) has evaluated the proposal by the Third Parties to carry out an ATTRACT Student Program (“**Student Program**”) #....., submitted in accordance with the requirements established in the document “ATTRACT Phase 2 – Call for Student Program Proposals”²⁵.

The Third Parties are:

²⁴ <https://attract-eu.com/>

²⁵ <https://attract-eu.com/>



The Student Program has been accepted for funding and implementation.

The Third Parties have appointed the Third Parties Coordinator from among them and authorised it to sign this Agreement on their behalf.

This ATTRACT-Phase 2 Third Party Student Program Agreement (“**Agreement**”) is concluded within the context set out here above:

1. Purpose

The Third Parties shall carry out the Student Program in accordance with, and in order of priority, the terms and conditions set out in this Agreement, the requirements set out in the document “ATTRACT Phase 2 – Open Call for Student Program Proposals” and the Student Program Proposal. The Third Parties are jointly and severally liable for the performance of the obligations under this Agreement. The Project proposal is set out in Annex 1, which forms an inherent part of this Agreement.

2. Deliverables

1. At the end of each Student Programme, the Third Parties shall deliver to the ATTRACT Academy Facilitator (“**Facilitator**”), through the Third Parties Coordinator, the deliverables established in the Program proposal, which shall in any event include the following items (“**Deliverables**”). Deliverables marked with an asterisk (*) are to be made fully public for dissemination purposes.

Modality A	Modality B
<ul style="list-style-type: none"> ● Student information document for every Study Course in the Student Program to be submitted to the ATTRACT Academy Facilitator. ● Course feedback form. ● A tangible solution demonstration, experiment or prototype for each of the 10 Student Projects²⁶.* ● A brief Student Project report covering the project context and the description of the final solution for each of the 10 Student Projects.* ● A poster for each of the 10 Student Projects. * 	<ul style="list-style-type: none"> ● Student information document for every Study Course in the Student Program to be submitted to the ATTRACT Academy Facilitator. ● Course feedback form. ● Proof of Concept (PoC) functional prototype of a tangible product or service solution to the design challenge for each of the 10 Student Projects.²⁷ * ● A student team poster/flyer for each of the 10 Student Projects. * ● Student Project poster for each of the 10 Student Projects. * ● A comprehensive Student Project report, covering the evolution of the design and the description of the final solution (min. 5000 words) for each of the 10 Student Projects. * ● Teaser video showcasing the final prototype for each of the 10 Student Projects. *

²⁶ For example, Project SWaP from ATTRACT Phase 1 - <https://attract-eu.com/showroom/student-projects/project-swap/>

²⁷ For example, Project Heimdall from ATTRACT Phase 1 - <https://attract-eu.com/showroom/student-projects/project-heimdall/>

	<ul style="list-style-type: none"> • Participation in the ATTRACT Final Conference.
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2. Students attending the Student Program may be required to present their results at the ATTRACT Final Conference in Brussels at a date to be determined by the Consortium Partners, and/or at common events such as the ATTRACT Academy Gala organised at the end of the academic year either at Aalto, ESADE or IdeaSquare (CERN). The Facilitator will communicate well in advance to the Third Parties Coordinator regarding the required participation of the students from their program.

3. Grant and Payment

1. For the implementation of the Student Program, the Coordinator shall pay to the Third Parties Coordinator a total fixed amount of 80 / 240 KEUR (“**Grant**”) within 30 days of signature of this Agreement. It is the responsibility of the Third Parties Coordinator to distribute the Grant to the Third Parties in accordance with any arrangement agreed among them.
2. The Coordinator, in coordination with the European Commission, reserves the right to claim back all or part of the Grant in the event that the Third Parties do not submit all the Deliverables in the required format and on the prescribed dates.
3. Subject to the payment of the Grant funding pursuant to this Article 3, any costs or expenses incurred by the Third Parties in the execution of the Student Program shall be for their account, without liability for the Consortium Partners.

4. Monitoring and Acceptance

1. The Consortium Partners, including through the Facilitator, will periodically monitor the progress of the Student Program. Such monitoring may include face-to-face meetings and site visits. Acceptance of the Deliverables shall be in accordance with the procedure set out in the document “ATTRACT Phase 2 – Open Call for Student Program Proposals”.
2. In particular, the Third Parties Coordinator is required to submit a minimum of an interim report and a final report after each round of the Student Program to the Consortium Partners for their review.

5. Intellectual Property

Subject to Article 10, the provisions of the Grant Agreement governing the ownership, use and access to Intellectual Property (Articles 23a to 31) shall apply *mutatis mutandis* to the Third Parties.

6. Warranties

The Third Parties Coordinator warrants, and shall ensure that each Third Party also warrants, that:

- a) each Third Party has, and shall maintain for the term of this Agreement, full power and authority and all necessary licenses and consents to enter into this Agreement and perform all of its obligations under it; and
- b) there are no actions, claims or proceedings pending or threatened against it that could or do adversely affect the performance of its obligations under this Agreement.

7. Liability

1. The Consortium Partners shall have no liability to the Third Parties in relation to the subject matter of this Agreement except for the payment of the Grant as set out in Article 3.
2. The individual and collective liability of the Third Parties to the Consortium Partners in relation to the submission of the Deliverables shall be limited to the amount of the Grant. Such limitation shall not diminish the liability of a Third Party for:
 - a violation of any EU rule, regulation or other instrument referred to in this Agreement;
 - fraud, acts of gross negligence or wilful misconduct; or
 - any breach of intellectual property rights of third parties, including a breach of confidentiality.

The Third Parties shall indemnify and hold the Consortium Partners harmless from and against any loss, liability, repayment or damages of any kind that result from or arise out of any of the foregoing, in particular where this has an effect on the Consortium Partners' obligations under the Grant Agreement.

3. Article 46 of the Grant Agreement shall apply *mutatis mutandis* to this Agreement, such that the European Commission shall have no liability to the ATTRACT Third Parties.

8. Use of images, logos and names of the Consortium Partners

1. Each Party may refer to and make known the name and nature of the Student Program, including the names of the Parties involved, for the purposes of the Student Program.
2. Notwithstanding the foregoing, the Third Parties shall not use or make reference to the image or logo of any of the Consortium Partners without the prior written permission of the Consortium Partner concerned. Any such permission may be withdrawn by the Consortium Partner concerned at any time, and in any event shall expire upon termination of this Agreement.

9. Obligations originating from the EU

The Third Parties shall be subject to the following obligations as set out in the Grant Agreement:

1. Publications and Communications (Article 38 of the Grant Agreement)
 - a) The provisions of the Grant Agreement governing promotion, publicity and communication shall apply to this Agreement. In particular, all communication activities (including in electronic form and via social media), as well as any infrastructure, equipment and major results financed under this Agreement, shall display the EU emblem and include the following text:
 - for communication activities: *'This is part of ATTRACT that has received funding from the European Union's Horizon 2020 Research and Innovation Programme'*;
 - for infrastructure, equipment and major results: *'This [infrastructure][equipment][insert type of result] is part of ATTRACT that has received funding from the European Union's Horizon 2020 Research and Innovation Programme'*;
 - b) The Consortium Partners and the EU may use the Third Parties' Deliverables and names for the purposes of communication and publicity, including storage and archiving.
2. Conflict of interest (Article 35 of the Grant Agreement)

- a) Each Third Party shall take all measures necessary to prevent a situation arising where the impartial and objective implementation of this Agreement is compromised for reasons involving economic interests, political or national affinity, family, personal life or any other shared interest.
- b) The Third Party(ies) concerned shall notify the Coordinator, through the Third Parties Coordinator, without delay of any situation constituting or likely to lead to a conflict of interest (including changes of ownership) and shall immediately take all steps necessary to rectify this situation. The Coordinator, through the Third Parties Coordinator, may instruct the Third Party(ies) concerned to take specific measures to remedy the situation.

3. Ethics and research integrity (Article 34 of the Grant Agreement)

- a) The Third Parties shall carry out the Student Program in compliance with ethical principles.
- b) The Third Parties shall carry out the Student Program for peaceful purposes only.
- c) The Third Parties shall comply with the highest standards of research integrity — as set out, for instance, in the European Code of Conduct for Research Integrity²⁸.

Inter alia, this means that each Third Party shall ensure that persons carrying out research tasks:

- (i) present their research goals and intentions in an honest and transparent manner;
- (ii) design their research carefully and conduct it in a reliable fashion, taking their impact on society into account;
- (iii) use techniques and methodologies (including for data collection and management) that are appropriate for the field(s) concerned;
- (iv) exercise due care for the subjects of research — be they human beings, animals, the environment or cultural objects;
- (v) ensure objectivity, accuracy and impartiality when disseminating the results;
- (vi) allow — as much as possible and taking into account the legitimate interest of the Third Party(ies) concerned — access to research data, in order to enable research to be reproduced;
- (vii) make the necessary references to their work and that of other researchers;
- (viii) refrain from practicing any form of plagiarism, data falsification or fabrication;
- (ix) avoid conflicts of interest and misrepresentation of credentials or other research misconduct.

In addition, before starting any activity that raises an ethical issue, the Third Party(ies) concerned shall submit to the Coordinator, through the Third Parties Coordinator, a copy of:

- any ethics committee opinion required under applicable laws, and
- any notification or authorisation for activities raising ethical issues required under applicable laws.

4. Obligation to provide information and keep records (Article 18 of the Grant Agreement)

- a) Each Third Party shall, at all times during the implementation of this Agreement, provide any information requested by the Coordinator, through the Third Parties Coordinator, in relation to this Agreement.
- b) Each Third Party shall keep, for a period of at least 5 (five) years after the payment of the balance of the Grant Agreement, records and other supporting documentation relating to

²⁸ The European Code of Conduct for Research Integrity of ALLEA (All European Academies) and ESF (European Science Foundation) of March 2011.
http://www.esf.org/fileadmin/Public_documents/Publications/Code_Conduct_ResearchIntegrity.pdf

the implementation of this Agreement, in particular records and other supporting documentation on scientific and technical implementation and on the price charged and the costs incurred by any Third Party.

- c) Each Third Party shall keep its original documents. Digital and digitalised documents are considered originals if so recognised under Belgian law. In the event of on-going checks, reviews, audits, investigations, litigation or other pursuits of claims in respect of this Agreement, each Third Party shall keep its records and other supporting documentation relating to the implementation of this Agreement until the end of such procedures.

5. EU checks, reviews, audits and investigations (Article 22 of the Grant Agreement)

Should the EU, including as represented by the European Court of Auditors or the European Anti-Fraud Office (OLAF), decide to carry out a check, review, audit or investigation, the Third Party(ies) concerned shall make available all its information, records and other supporting documents relating to the implementation of this Agreement. Should there be an on-the-spot visit by the EU or its representatives, the Third Party(ies) shall allow access to its premises and shall ensure that any information requested in relation to the Student Program is readily available.

6. EU impact evaluation (Article 23 of the Grant Agreement)

Should the EU carry out an impact evaluation of the Grant Agreement, the Third Parties shall make available all information, records and other supporting documents relating to the implementation of the Student Program.

7. Confidentiality (Article 36 of the Grant Agreement)

The provisions of the Grant Agreement governing confidentiality shall apply *mutatis mutandis* to the Third Parties.

10. Dissemination and Communication of Results

1. Subject to Article 5, the Third Parties shall strive to disseminate jointly the Results generated under the Student Program and shall ensure Open Access to all their resulting scientific publications. The copyright in any article shall be vested in the Third Party(ies) having contributed to that article.
2. Any dissemination shall expressly mention that the Consortium Partners are not responsible for any use that may be made of the results.
3. Notwithstanding any intellectual property rights into the Deliverables by the Third Parties, the Third Parties agree to the dissemination of the Deliverables, in whole or in part, by the Consortium Partners at the ATTRACT Final Conference in Brussels and beyond.
4. Any communication by the Third Parties shall expressly mention that it only reflects the Third Parties' views and not necessarily those of the Consortium Partners.

11. Entry into force and Termination

1. The Third Parties Coordinator shall sign this Agreement on behalf of the Third Parties within 15 (fifteen) days of receipt of this Agreement. This Agreement shall enter into force upon subsequent signature by the Third Parties Coordinator.
2. This Agreement shall terminate upon completion of the Student Program, as evidenced by the acceptance of the Deliverables and the presentation at the ATTRACT Final Conference in Brussels, as referred to in Article 2.2.

3. Either Party may terminate this Agreement early by written notice if the other Party is in material breach of its obligations and such breach either cannot be remedied, or, where such breach is capable of remedy, is not so remedied within thirty (30) days of notice being given.
4. The Coordinator may terminate the participation of a Third Party by written notice to the Third Parties Coordinator concerned, if a change to that Third Party's legal, financial, technical, organisational or ownership situation is likely to adversely affect or delay the Student Program or calls into question to award the Grant in respect of that Third Party. The remaining Third Parties shall remain liable for carrying out the Student Program in accordance with this Agreement.
5. The Coordinator may terminate this Agreement, if,
 - a) implementation of the Student Program is prevented by force majeure or is suspended by the Coordinator and either:
 - (i) resumption is impossible, or
 - (ii) the necessary changes to this Agreement would call into question the decision to award the Grant or breach the principle of equal treatment of applicants;
 - b) a Third Party is declared bankrupt, wound up, has its affairs administered by the courts, enters into an arrangement with creditors, suspends or has its business activities suspended, or is subject to any other similar proceedings or procedures under national law;
 - c) a Third Party (or a natural person who has the power to represent or take decisions on a Third Party's behalf) has been found guilty of fraud, corruption, involvement in a criminal organisation, professional misconduct, proven by any means;
 - d) a Third Party does not comply with any applicable national laws on taxes or social security.
6. In the event that this Agreement is terminated by the Coordinator pursuant to Articles 11.3, 11.4 or 11.5, the Third Parties shall be jointly and severally liable for the reimbursement to the Consortium Partners, via the Coordinator, of the Grant.

12. Survival of Articles

Articles 5 to 14 of this Agreement shall survive the termination of this Agreement (including termination of participation of an individual Third Party) or, where applicable, for the time period mentioned therein.

13. Governing law and dispute resolution

1. The Parties shall comply with the laws applicable to them, including the legal framework governing data privacy protection.
2. The terms of this Agreement shall be interpreted in accordance with their true meaning and effect. If this Agreement does not expressly stipulate, or if any of its terms is ambiguous or unclear, then in those circumstances only and not in respect of this Agreement as a whole, reference shall be made to Belgian substantive law.
3. Nothing in this Agreement shall be deemed or interpreted as a waiver, express or implied, of any privileges and immunities accorded to any of the Parties under its constituent documents or under international law.
4. The Parties shall endeavour to settle any disputes in respect of this Agreement amicably. Any such dispute, controversy or claim, including, without limitation, its formation, validity, binding effect, interpretation, performance, breach or termination, as well as non-contractual claims, that cannot be settled amicably shall, upon the filing of a request for arbitration by either Party, be referred to

and finally determined by a single arbitrator in accordance with the WIPO Expedited Arbitration Rules. The place of arbitration shall be Brussels, Belgium unless otherwise agreed upon. The arbitration award shall be final and binding on the Parties.

14. Assignment

Neither Party shall assign this Agreement in whole or in part to a third party.

For the Coordinator

For the Third Parties Coordinator

In.....

In.....

On.....

On.....

Annex 1: Project proposal

ANNEX 1 to the Guide for Applicants

ATTRACT Phase 2 Student Program Open Call –

Example of a Hypothetical Proposal Submission Scenario for Illustration

Purposes

University X in Poland has been running ‘InnoDesign’, a product development course for interdisciplinary student teams comprising students from engineering, design, and business backgrounds, for the past 4 years at the Master’s level. The course runs for the whole academic year from October till the second week of April and the students get 10 ECTS after completing the course.

University Y in Portugal has been running ‘Human Centric Design For Industry’, a service design course for the last two years for students from design and engineering backgrounds. The course utilizes the design thinking methodology and the students produce prototypes for service concepts based on the design briefs given by the local industry partners. The students on this course are granted 12 ECTS credits once the course is completed. The course runs for the whole academic year starting from October till the end of April.

X and Y heard about the open call for ATTRACT Student Program and they decided to apply together as a consortium (X&Y) to one of the Student Programs together. In order to make a proposal they need to go through the following procedure:

1. (X & Y) look at the participation criteria from the ATTRACT Phase 2 Call for Proposals for Student Programs document. Since they together meet all the requirements of the call, they can proceed to the next step.
2. (X & Y) must decide which Student Program they would like to apply for. So first, they see the Student Program descriptions and the times those run annually from the ATTRACT Phase 2 Call for Proposals for Student Programs document. Since their courses match the description and the time of the Student Program number eight, (SP-8), they decide that it might be a good fit for their activities.
3. Then, the Universities see the deliverables that are defined by the Modality of the Program mentioned in Table 1 of the call document. Since SP-8 falls into the Modality B for courses granting 10 ECTS or more, they need to ensure that in their Study Courses, the student teams are producing the deliverables mentioned in Table 3 of the call document. The universities together also make sure that they have the capacity to have a sufficient number of Student Projects across both the rounds of Student Program 8.
4. From the call document, they understand the Student Program 8 is done in liaison with IdeaSquare at CERN. This means that
 - a. (X & Y) would need to describe how they will collaborate with IdeaSquare in the proposal submission template (Student Program Proposal Template, section 3).
 - b. Only if the proposal submitted by (X&Y) is funded, their collaboration description will be reviewed and organised in the best possible way in an initial meeting between (X&Y) and IdeaSquare. **IMPORTANT:** (X&Y) must NOT contact IdeaSquare during the proposal submission and evaluation time for reasons of transparency and impartiality. Any contact will lead to the disqualification of the submitted proposal.
5. X has expertise in the coordinator tasks defined in the call document so (X&Y) decide X will be the Program Coordinator for their consortium. X will therefore coordinate all the student

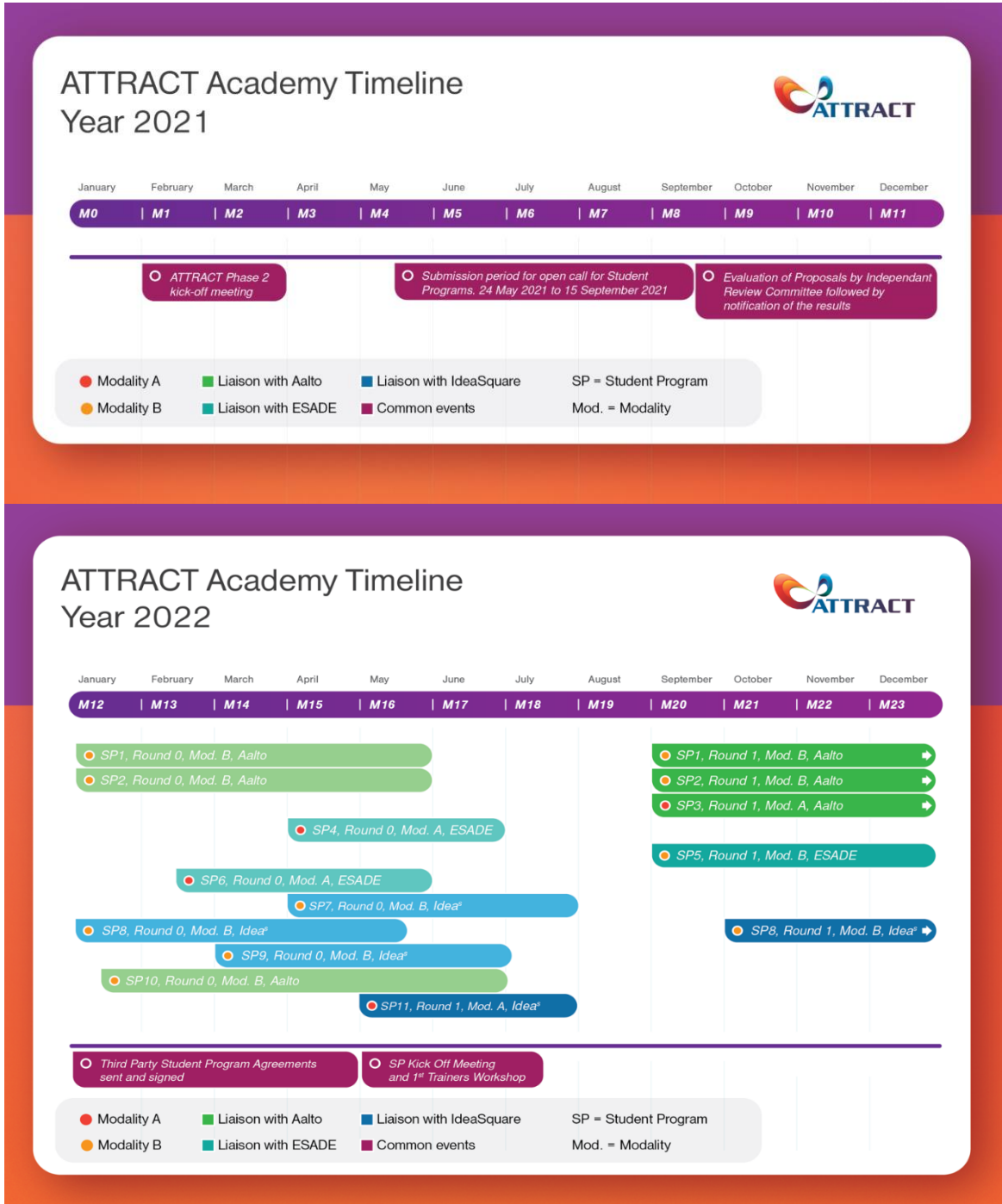
activities within the program and will be the contact point with the ATTRACT Project Office for the financial matters and with the ATTRACT Academy Facilitator for all the Program Deliverables if their proposal is selected for funding. For the work done by University X coordinator, they can budget up to 15% of the total funding allocated as personnel costs. Only X, as coordinator, the coordinator is eligible for budgeting personnel costs.

6. Based on the student activities that the consortium decides to do together, they come up with a suitable plan for distributing the funding which will be awarded if the proposed Student Program gets selected. This information is used to propose a budget breakdown for the call.
7. With this information, the consortium fills the following proposal using the Student Program Proposal Template in Annex 3.
8. If the (X&Y) proposal is funded, the first task to be completed will be the signature of the Third Party Student Program Agreement, between X and The ATTRACT Phase 2 Project Coordinator. X, as coordinator, represents also Y in this contract as stated in the Power of Attorney required²⁹. Only when the Third Party Student Program Agreement has been signed, the funding money will be transferred to X by the ATTRACT Phase 2 Coordinator and the (X&Y) project can start with a first meeting with IdeaSquare to organise activities.

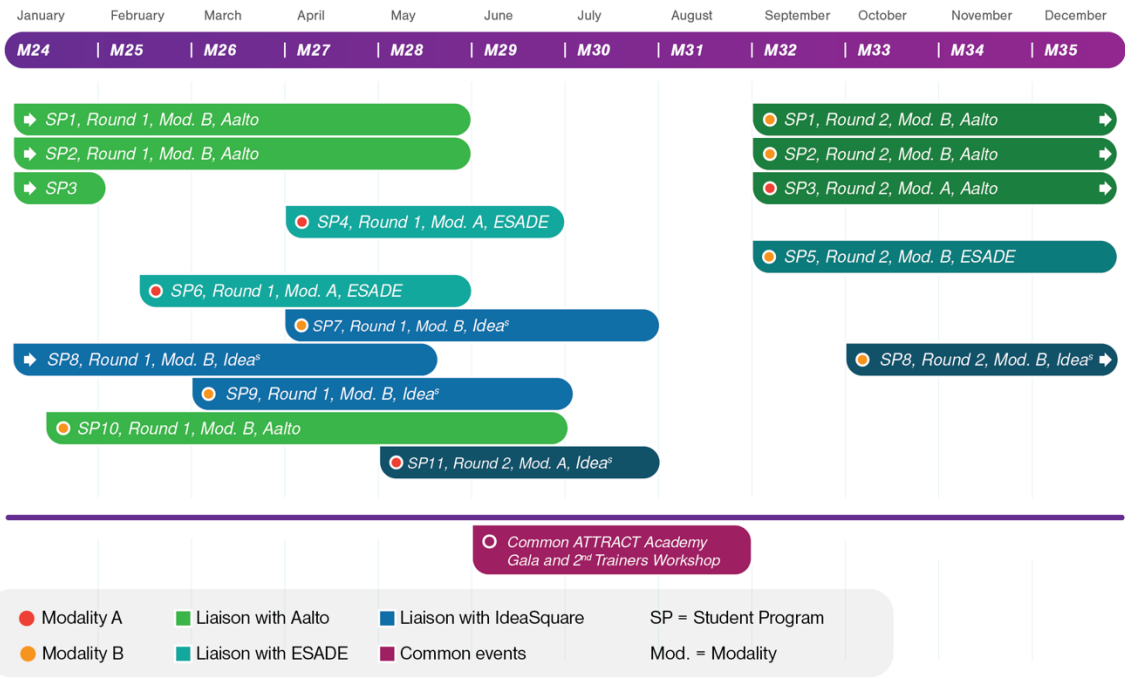
²⁹ Provided as a complementary document to this Guide for Applicants.

ANNEX 2 to the Guide for Applicants

ATTRACT Phase 2 Student Program Open Call – Illustration of Table in Section D. Overview of Calls for Student Projects



ATTRACT Academy Timeline Year 2023



ATTRACT Academy Timeline Year 2024



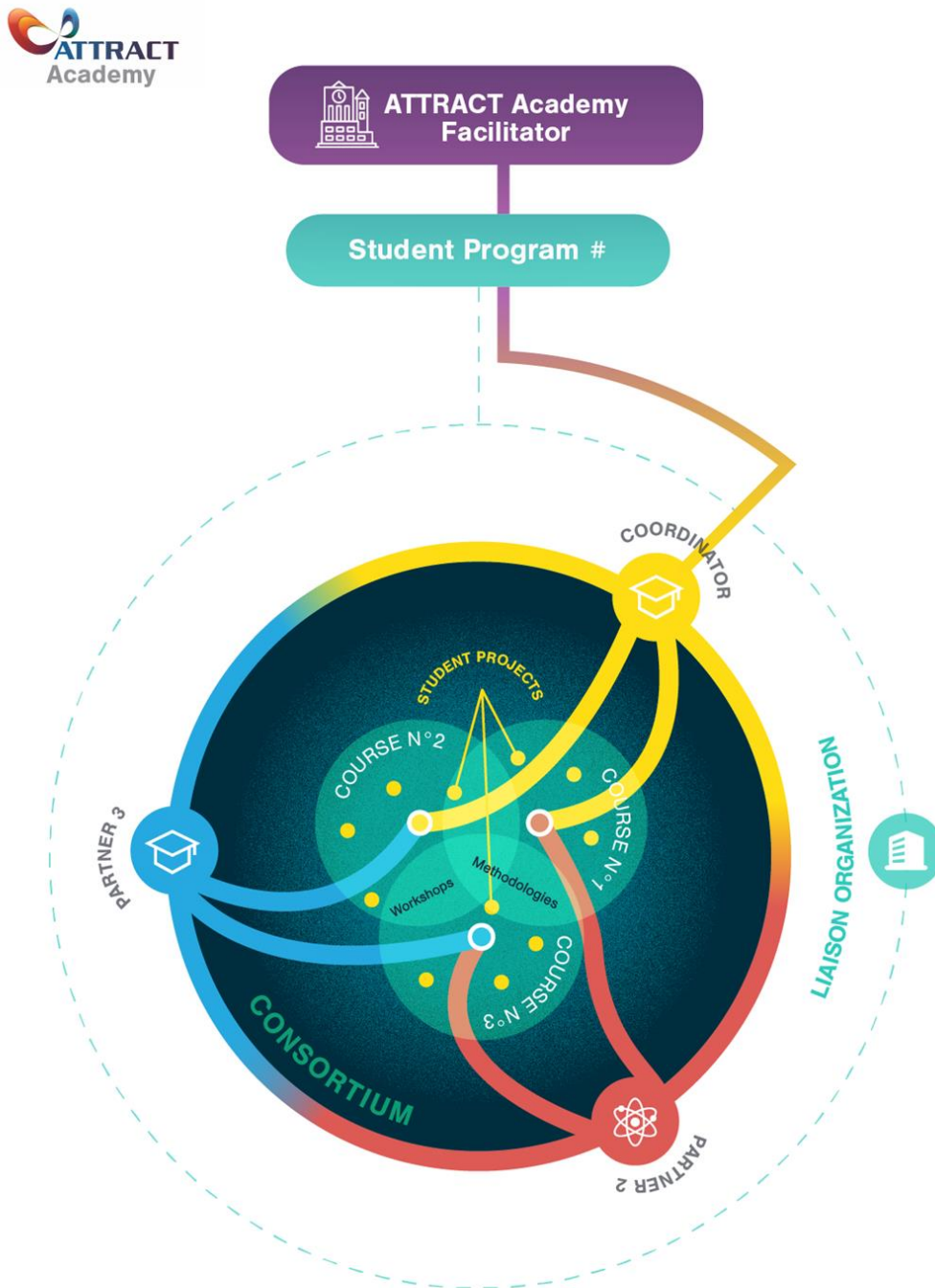
January | February | March | April | May | June | July | August | September | October | November | December

M36 | M37 | M38 | M39 | M40 | M41 | M42 | M43 | M44 | M45 | M46 | M47



- Modality A
- Modality B
- Liaison with Aalto
- Liaison with ESADE
- Liaison with IdeaSquare
- Common events
- SP = Student Program
- Mod. = Modality

**ANNEX 3 to the Guide for Applicants
ATTRACT Phase 2 Student Program Open Call
Illustration of The ATTRACT Academy Structure**



ANNEX 4 to this Guide for Applicants: Power of Attorney Template

NOTE: Power of Attorney Template for use by the Third Parties, authorizing the Third Parties Coordinator submitting the project proposal and signing the ATTRACT Third Party Project Agreement on their behalf, in the event that their application is successful.

The template Power of Attorney should be read in conjunction with the ATTRACT Third Party Project Agreement in this Guide for Applicants. Third Parties are free, but not obliged to use this specific template. They may adjust this specific template in accordance with their own legal requirements or, alternatively, choose to use a different format.

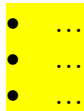
Although Third Parties are not obliged to use this specific template, it is essential that they provide written confirmation that their Third Parties Coordinator has authority to submit the project proposal and sign the ATTRACT Third Party Project Agreement on their behalf, in the event that their application is successful.

POWER OF ATTORNEY

(To be printed on letterhead of the Third Party executing the Power of Attorney, not of the Third Parties Coordinator)

[Name of Third Party], [address] hereby confirms and acknowledges that

shall be the representing entity (“Third Parties Coordinator Organization”) of the entities participating in the ATTRACT Third Party Project entitled “[Name of the Project]” (the “Project”) which, in addition to the Third Parties Coordinator, shall be



(the “Third Parties”).

In this capacity, the Third Parties Coordinator shall be the leader and authorized representative of the Third Parties for all matters relating to the Project. It shall be authorized *inter alia* to submit the project proposal and sign the Third Party Project Agreement and accept all rights and obligations contained therein for and on behalf of the Third Parties.

For [Name of Third Party]

Name:

Place:

Date:

Signature of the authorized person from the Coordinating organization: