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PH.D. NOTE

European XFEL Ph.D. Student Programme Guidelines

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1 Introduction

These guidelines have the scope to structure the existing European XFEL Ph.D. student programme to better respond to our students' expectations. They focus on improving supervision and protection of our Ph.D. students (Milestone I) and creating a European XFEL student population with a common identity and culture (Milestone II). Overall, these guidelines aim at giving our students, through their Ph.D. programme at European XFEL, the best possible launch pad for their future scientific career.

Milestone I will be achieved by the implementation of

- "Ph.D. committee"
- Tutor
- Yearly presentations and short reports
- Students' Day

Milestone II will be achieved in a second step, after having defined the requirements and skills we expect from our Ph.D. students, in terms of

- Basic knowledge of X-ray optics, detection, beamline alignment, data analysis, etc.
- Soft skills (oral and poster presentations, scientific writing, preparation for recruitment interview)

In this context, we will coordinate our initiatives with those at existing graduate programmes, many of which we are already engaged with: Centre for Ultrafast Imaging - Advanced Imaging of Matter (CUI-AIM), International Max Planck Research Schools (IMPRS), Partnership for Innovation, Education and Research (PIER), Data Science in Hamburg (DASHH) and NANOHYBRID. These offer lecturing, soft skill courses, and expertise from which we and our Ph.D. students can greatly benefit.

This document presents guidelines for achieving Milestone I. It will be complemented to include Milestone II. It will then be regularly updated when necessary.

2 Scope of the European XFEL Ph.D. programme

The European XFEL Ph.D. programme aims at training the next generation of scientists within X-ray free-electron laser (X-ray FEL) science areas and thereby disseminating the expertise and know-how acquired at European XFEL to other scientific institutions and to society. Engaging in the Ph.D. student programme will also enable European XFEL scientists and engineers from all divisions to strengthen their research activities and their soft skills in supervision and mentoring. It will allow the facility and its staff to increase their scientific goals and productivity. It will foster a closer relationship between the students and supervisors. Beyond that, it will enable European XFEL staff and students to establish a closer link to universities, research institutes and other facilities. Finally, it will contribute to the establishment of long-term identification with European XFEL.

All the traditional science areas of application of X-ray FEL radiation are concerned (physics, chemistry, biology, materials, engineering) in addition to completely new areas such as applied mathematics and computational science (data techniques and advanced learning algorithms). Research on instrumentation specific to X-ray FELs (FEL science and technology, detection, lasers, synchronization and data transfer reduction and storage) is a specific part of this programme. Research in the theoretical fields of photon fields generated by FELs is also encouraged.

Ph.D. projects will be articulated around the in-house research topic of the local supervisor. The local supervisor and the student will work together to pursue the scope of the research.

3 Who this programme concerns

All Ph.D. students who have a European XFEL supervisor (local supervisor) will be part of this programme, independent of where the funding for their positions comes from[1] and independent of where the Ph.D. work is carried out. This includes Ph.D. students hosted at European XFEL for more than 12 months and either enrolled in external programmes (such as AIM, IMPRS, PIER) or affiliated with universities in Germany or abroad.

Excluded from this programme are Ph.D. students who do not have a European XFEL local supervisor, including

- Students who access European XFEL as part of a team through peer-reviewed proposals
- Students from DESY or HiBEF (or another external organization) partners permanently located at European XFEL. These students are, however, automatically associated with all activities of the social and didactic programme (student self-organization and Ph.D. seminar meetings, Students' Day, etc.).

[1] Ph.D. students hired at institutions other than European XFEL are considered as "guests".

4 Supervision: Academic, and local supervisors

Since the European XFEL does not have its own right to award Ph.D. degrees, the Ph.D. thesis is carried out in cooperation with a university. When our staff lacks the credentials to officially supervise a Ph.D. student, an external supervisor (typically a university professor) will assume the role of “academic” supervisor with administrative responsibilities. Given that the academic supervisor assumes the responsibility to bring the Ph.D. defence at the university, a close involvement of the academic supervisor in the whole Ph.D. project is expected. In this case, our staff member assumes the role of a local supervisor with scientific supervision responsibilities. It is possible to have more than one local supervisor. European XFEL scientists/engineers wishing to achieve the status of “academic” supervisor are encouraged to search for opportunities and engage in stronger interaction with academia. Application for academic supervisor status—and the associated activities at university to achieve this status—must be discussed with management. An agreement must be found on how to smoothly insert these activities into multi-annual planning so they do not interfere with duties related to the smooth operation of the facility. In the following, the term “local supervisor” always refers to a European XFEL staff member.

5 Commitment of supervisor and group leader

Supervisor and student shall agree on actively engaging in the Ph.D. project for a maximum duration of three years, and both sign the Ph.D. project agreement form (Appendix C), which defines the rights and duties of both parties.

At the beginning of the Ph.D., student and local supervisor will agree on the courses and conferences that the student will attend to. The local supervisor will share this information with the Ph.D. committee.

Approval of a Ph.D. student project is a commitment on behalf of the local supervisor to share their time for supervision tasks throughout the full duration of the thesis or for the full duration of the stay of the student at our premises. In addition, approval of a Ph.D. student project is a commitment of the group leader (GL) or leading scientist (LS) that sufficient in-house research beamtime, funding, and lab and office space will be allocated to the project. In particular, the necessary beamtime for the fulfilment of the Ph.D. project must be included into a multi-annual plan of in-house research beamtime requirements of the group.

Students who are shared by two groups in the same division, or in two different divisions, shall have a primary local supervisor.

5.1 Responsibilities of the local supervisor

The responsibilities of the local supervisor are beyond the direct supervision and mentoring of the student, and include:

- Share with the secretary of the Ph.D. committee the university agreement signed by the academic, local supervisor and the student. The aim is to document the information about the academic and local supervisors as in the corresponding university.
- Inform the Ph.D. committee (and its secretary) on the joint decision between local supervisor and Ph.D. student on the courses, seminars, schools and conferences the student will participate in.
- Inform the secretary of the Ph.D. committee whether the Ph.D. student is enrolled in further graduate schools.
- Submit to the Ph.D. committee a short progress report after the end of first-year and second-year presentations. For details, see Section 12, “During the Ph.D. contract”.
- The local supervisor has to communicate to the Ph.D. committee the achievement of the Ph.D. degree. An electronic copy of the manuscript should be sent to the EuXFEL Records Manager and Editor for storage (tind@xfel.eu). The printing costs will be covered by the group. A policy regarding raw data storage is under discussion.
- Communicate to HR the obtention of the Ph.D. title by the student. This will allow HR to make the necessary contract amendments.

6 Ph.D. students' spokesperson and Ph.D. self-organized activities

The spokespersons and deputy spokesperson (if any) are appointed by the Ph.D. students. The duration of the terms is variable and up to the Ph.D. students. Typically, a new spokesperson is appointed before the end of the Ph.D. contract of the spokesperson "in office", and the spokesperson will transfer their duties to the deputy upon termination of their contract. A new deputy spokesperson will then be appointed. The spokesperson (and, in their absence, the deputy) will be in charge of communicating with the Ph.D. committee.

A self-organized activity of the student community at European XFEL is the Student Seminar, which takes place on a monthly basis and is intended to give an environment for the students to practice the presentation of posters and talks. In addition, it provides room for exchange and discussion. The responsibility for scheduling the Seminar lies with the students. In the scope of the Student Seminar, visits to all Instruments as well as sample environment and characterization labs and optical laser labs are organized to enable a comprehensive overview of the facility. In addition, social events are organized that take place off campus.

The students are required to provide input on which additional skills they would like to obtain. These will be compiled in a short list of workshops and presented by the spokesperson to the Ph.D. committee.

7 Ph.D. committee

The scope of the Ph.D. committee is to assist the European XFEL Management Board (MB) in all matters concerning supervision, protection, and well-being of the Ph.D. students at European XFEL. In particular, this committee assists the scientific directors in taking decisions by providing all necessary background information.

It is composed of

- 1 scientific director
- 1 secretary (ex-officio)
- 1 administrative assistant (ex-officio)
- At least 2 GLs and 4 staff members (from the Science & Experiments and Development & Operation Divisions)
- 1 HR staff member
- 1 Ph.D. students' spokesperson and 1 Ph.D. students' deputy spokesperson

The members are mentioned on the Alfresco site of the Ph.D. committee. They are appointed for a period of 2 years, renewable once.

Tasks and responsibilities of Ph.D. committee are:

1 Issue (and update when necessary) the Ph.D. Agreement Form.

2 Assist in the selection of Ph.D. candidates

3 Select a tutor for each new Ph.D. student

4. Receive and scrutinize:
    a. Drafts of Ph.D. projects
    b. Ph.D. Agreement Form signed by both supervisor and student.
    c. From supervisor: First- and second-year progress reports
    d. From student: Ph.D. project plan, first- and second-year reports
    e. Active feedback from the students, through their spokesperson
5. Students enrolled in graduate schools or at university may already have obligations to report regularly on the progress of their Ph.D. thesis. It is the role of the Ph.D. committee to scrutinize these cases and to organize regular in-house reporting. In any case, double reporting should be avoided.
6. Track student progress and solicit reports that have not been submitted.
7. Discuss and propose measures to help students complete their manuscript on time.
8. Discuss and advise the MB (with a formal recommendation via an MB Proposal) on contract extensions.
9. Discuss and advise the MB on options for hiring for few months students who have completed Ph.D. degrees to write up publications.

The Ph.D. committee meets whenever necessary and at least twice a year.

8 Tutors

Ph.D. students participating to this programme (see Section 4) must be able to approach a neutral mediator at European XFEL if in need of advice or in case of problems. At the start of a Ph.D. thesis contract, a European XFEL scientist/engineer must be associated with the programme as a tutor, in addition to the thesis local supervisor. The tutor could be a GL, LS, or younger scientist/engineer from a different group, or a member of the Ph.D. committee. The Ph.D. committee selects a tutor for each new Ph.D. student. The name of the tutor is communicated to the student and the local supervisor at the start of the contract. The tutor alerts the Ph.D. committee in case of noted or foreseeable problems in the progress of the Ph.D. thesis; hence, regular contact between the student and their tutor are encouraged. The tutor participates in the yearly presentations of the Ph.D. student.

9 Experimental work on instruments (if relevant)

To increase opportunities for experimental work with X-rays, Ph.D. students will work on the instrument(s) in collaboration with the in-house team and/or with external users. Active participation in user shifts can also be planned to provide additional opportunities for gaining experience in the use of the instrument (optics, detectors, data acquisition, etc.). Students will use in-house beamtime or proposal review panel (PRP) allocated beamtime in the framework of their own proposal, or act as collaborators in an in-house or external user proposal. It is the responsibility of the local supervisor to verify that the Ph.D. student takes part in experimental work on the instrument(s), if relevant in the framework of their Ph.D. project. Upon their request, Ph.D. students may be involved in user support, but only if this activity is an integral part of the PhD project, or if used to strengthen expertise and gain experience in experimental methods.

It is up to the leading scientist to decide which group members (including Ph.D. students) should participate to experimental work outside regular working hours. The participation of Ph.D. students to experimental work considered of their own interest to gain expertise and knowledge on the field will not be declared as shift work. The supervisor, in agreement with the leading scientist, decides whether the student should do remunerated/unremunerated shift work. and informs the Ph.D. student accordingly. Remuneration of shift work is only possible for Ph.D. students with a work contract with EuXFEL.

Experimental work at the instruments, if relevant for the Ph.D. project, is always encouraged but should be dosed to allow sufficient time for other important activities within the Ph.D. project. As a guideline, each semester a Ph.D. student should have access to experimental work at least once in the framework of their Ph.D. project, and may participate in no more than two beam times in a support role.

In general, Ph.D. students are encouraged to participate and assist in the organization and implementation of facility and group related activities, such as tours, visits or conferences. This will be particularly expected from Ph.D. students working on theory-based Ph.D. projects, in order to adjust the workload of Ph.D. students participating in beamtimes.

10 Ph.D. projects funded through the European XFEL R&D programme

10.1 Number and duration of Ph.D. projects

Every year, up to four new Ph.D. contracts with a maximum duration of three years shall be funded by European XFEL via the R&D programme. The scientific director in charge may impose a limit to the number of Ph.D. students per instrument/support group, taking into consideration our limited resources (budget, office space, supervisors, beamtime). As a guideline, there should not be more than one Ph.D. student per scientist.

Milestones should be set and regularly updated to enable submission of the final manuscript before the end of the third year. Extensions of the contract of up to one year may be accorded on a case-to-case basis but should be exceptional.

The Project Management Office (PMO) is in charge of monitoring the progress of the R&D projects. Within their yearly evaluation they will request a Project Progress Report (PPR) to all principal investigators of R&D projects, in which each request for changes along with a general report of the status of the project, should be provided. The requests for Ph.D. extensions will be discussed in the frame of the R&D project and will be gathered by PMO. Such requests shall be discussed with the Human Resources team (HR). The requests shall altogether be scrutinized and commented by the Ph.D. committee, which will give a recommendation to the MB. The financial implications of an extension will be discussed beforehand between PMO and Controlling, in any case, before prolongation of a Ph.D. project.

10.2 Call for Ph.D. proposal submission and project selection

Calls for R&D programme–funded Ph.D. proposals are integrated into the call for R&D projects. The call is open to the Experiments & Science Division and to the Development & Operation Division.

The LS of an instrument or the GL must approve the Ph.D. proposal prior to submission, with the aim to have a coherent view and harmonization of the in-house research activities in the group. The Ph.D. proposal must be submitted in the format defined in Appendix A.

The Ph.D. proposal will also be evaluated by the Ph.D. committee. At least two weeks prior to the deadline for submission of the R&D proposal, a draft of the Ph.D. proposal template must be sent to the secretary of the Ph.D. committee. If necessary, the proposer will be contacted for further clarifications/questions.

Each R&D proposal and, in turn, related Ph.D. projects will be submitted for decision to the MB by the GL in charge. The final decision to award a Ph.D. project is made by the MB[2]. This decision is communicated accordingly.

10.3 Ph.D. student advertisement and recruitment

Recruitment of Ph.D. students at European XFEL can be done by different means. In some cases, open Ph.D. positions will be advertised through prestigious graduate schools, such as IMPRS UFAST or DASHH. In other cases, a call for European XFEL Ph.D. student candidates can be launched after the approval of the R&D projects to advertise the associated Ph.D.

[2] Once approved, the Ph.D. proposal becomes a Ph.D. project.

positions. In this case, a single advertisement describing the financed Ph.D. projects will be posted on the European XFEL website and distributed through standard advertisement channels. Particular efforts are made to advertise open Ph.D. positions within member countries to reach a more diverse student community. In certain cases, Ph.D. students can have “shared” contracts between universities abroad and European XFEL (being at least 12 months employed by EuXFEL).

The local supervisor is responsible for the recruitment of a suitable candidate. If a candidate has not been identified within nine months from the Ph.D. project award, funding will be returned to the pool of Ph.D. vacancies. A deferral of funds can be granted in exceptional circumstances by the MB.

11 Ph.D. projects not funded through the European XFEL R&D programme

All Ph.D. projects that are not part of our R&D programme must be approved by the MB.

Staff wishing to supervise a student, with or without financial support from European XFEL, must do the following:

1 Submit a draft of the Ph.D. Proposal form (Appendix A) to the secretary of the Ph.D. committee at least two weeks prior to submission to the MB. If necessary, the proposer will be contacted for further clarifications/questions.

2 Submit an MB proposal.

Special Note: If you wish to apply for competitive funding programmes (i.e. BMBF), the procedure described above must be carried out at least two weeks prior to the submission deadline. In this case, the preparation of the corresponding MBP should follow the specific guidelines for “third-party funding”.

12 During the Ph.D. contract

The following guidelines apply to all students who comply with the definition given in Chapter 3. Once the candidate has been recruited, the following procedure is to be applied (see also Appendix B).

Year 1

1 Signature of the Ph.D. Project Agreement Form

2 An appointment should be made by the local supervisor with the scientific director in charge to formally welcome the student at the start of the contract. General guidelines will be given to the student during this short meeting, including information on the student's informal association.

3 Progress should be monitored in order to identify any problems at an early stage and assist the student by setting up well-defined goals. For this, a number of actions are taken (see points 4–13 below).

4 Within the first six months, in collaboration with the local supervisor, the student has the obligation to compile a Ph.D. project plan with milestones and main goals. This plan should include a refined and updated version of the milestones and main goals described in the approved Ph.D. project (see Appendix A). An important goal of this exercise is to bring to the surface and discuss any eventual misunderstandings. It allows clarification between the local supervisor and the student concerning the topic of research and the proposed experimental approach. This plan should be also shared with the academic supervisor. The plan will be submitted to the Ph.D. committee.

5 After the first six months the local supervisor and the student should present to the Ph.D. committee a list of courses, seminars, schools and conferences that the student shall attend to.

6 At the end of the first year of the Ph.D. contract, the student must make an informal presentation to their local supervisor, tutor, and the Ph.D. committee. This presentation should give the status of the thesis work: work accomplished, plans for the following years, and any foreseeable problem. A short, written report of 1–2 pp. max. must be supplied by the student to the PhD Committee (phd.committee@xfel.eu) one week before the date of the presentation. This report should not describe the project but rather a list of the milestones met and issues encountered (and if they may imply delays in the Ph.D. project). A discussion should follow and a programme for the following two years should be laid out. In case of any unsolved problems, the local supervisor must inform the Ph.D. committee. Any other person invited by the student or supervisor may participate in this meeting. Following the meeting, a short progress report should be submitted to the Ph.D. committee by the local supervisor. Such report shall be short and can be submitted as an email.

7 A student in the first year of their contract must give a poster presentation at the Students' Day (see point 11 below).

Year 2

A more formal presentation must be given by the student to the local supervisor, tutor, and Ph.D. committee before the end of the second year. Staff interested in the thesis subject are welcome to attend. A short, written report of 1–2 pp. max. must be supplied by the student to the Ph.D. committee (phd.committee@xfel.eu) one week before the date of the presentation. This report should not describe the project but rather a list of the milestones met and issues encountered (and if they may imply delays in the Ph.D. project). At this stage, the thesis work should be well advanced and any problems must be clearly identified and actions discussed. In experimental Ph.D. theses the access to beamtime and outcome of experiments should be specifically assessed. Following the meeting, a short progress report, which includes the timeline for the completion of manuscript, should be submitted to the Ph.D. committee by the local supervisor. The scope, content, and

deadline of this second-year presentation are analogous to the ones for the first year.

8 All precautions must be put in place by the local supervisor and student to avoid prolongation of the contract beyond the nominal three-year period.

9 A student in the second year of his/her contract must give a poster presentation at the Students' Day.

Year 3

10 If the thesis cannot be completed in the foreseen three-year period, an exceptional prolongation must be proposed by the local supervisor, with the agreement of the direct hierarchical responsible. The local supervisor must send a request to the Ph.D. committee on whether the student's employment contract should be prolonged. In the case of the Ph.D. theses linked to R&D projects, potential Ph.D. prolongations will be considered in the context of the related R&D project. Hence, they shall be discussed with R&D project PI, the director in charge and PMO in connection with the annual project progress review (PPR). The Ph.D. committee will evaluate the requests for Ph.D. contract prolongations and will advise the MB on whether all precautions have actively been put in place by the local supervisor and student to avoid prolongation. In the recommendation to the MB, the reasons supporting a Ph.D. prolongation should be clearly stated. Decisions on prolongations will be taken by the MB. Ph.D. prolongations shall be requested for approval to the MB twice a year. Typically, a request for Ph.D. prolongations is linked to the R&D PPR done around August and the other one around February.

11 A student in the final year of his/her contract must give a talk at the Students' Day.

12 Local supervisors are to encourage students to give presentations at conferences or other external events.

13 The student should have at least one paper as first author published or submitted before the end of the contract.

13 Students' Day

The Students' Day is an annual one-day internal event aimed at giving visibility to the Ph.D. students' research activities within the facility. It is an open event, and it should be largely advertised internally as well as externally to the academic supervisors of the students and to the graduate school coordinators (if relevant). Students in their first or second year shall present their research topics and preliminary results through posters, whereas students in their last year shall make an oral presentation. Other activities may also be organized by the students (poster clips, invitation of an outstanding external speaker or expert, etc.).

14 Funding for events/conferences and other benefits

A small budget is made available to the Ph.D. students, as a community, for self-organized events (workshops and tutorials on X-ray FEL–related scientific culture, soft-skills, etc.), including the invitation of external lecturers. Ph.D. students must apply for authorization and funding for participation in scientific workshops or conferences (fee and travel/accommodation expenses) using the existing administrative tools available to all staff. These costs are to be taken from the corresponding group's budget.

European XFEL will assure that all Ph.D. students with "guest" status receive the same benefits as European XFEL affiliated Ph.D. students (i.e. subvention for meals at the BeamStop restaurant).

15 Survey, alumni database, and performance indicators

At the end of their contract, students will be given access to an “Alumni Survey” webpage on the European XFEL website (Appendix D). They will be prompted to provide and update information, which will be stored in a European XFEL Alumni Database.

Information in this database can benefit alumni in their future scientific careers—building a professional network is often one of the first steps. Moreover, it will provide former students a “sense of belonging” to the European XFEL alumni community. Overall, it will contribute to establishing long-term identification with European XFEL.

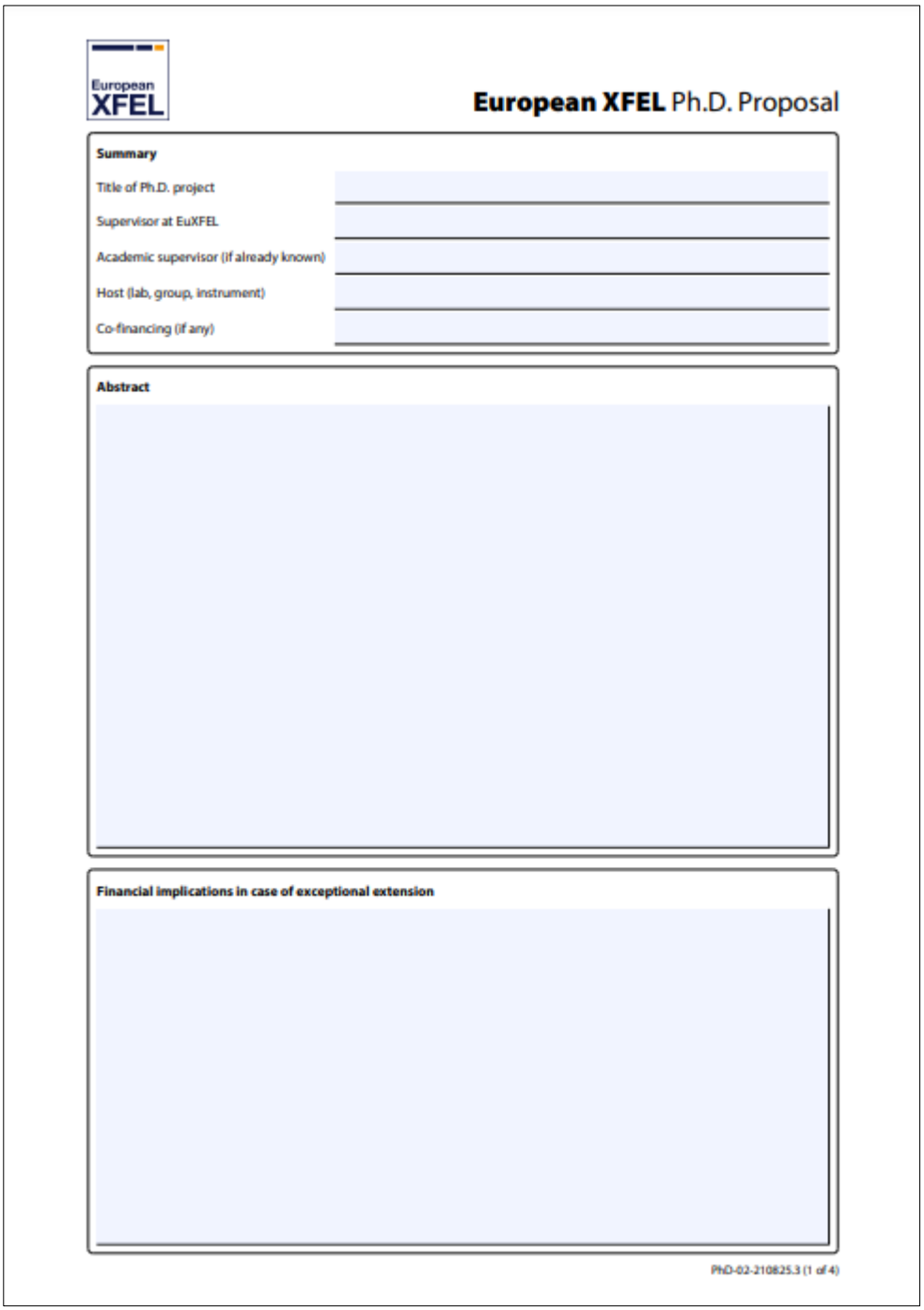
Performance indicators will be put in place to evaluate the success and the efficiency of the programme, in terms of scientific impact, visibility, and relevance.

Some of the indicators could be

- Number of overall Ph.D. students
- Number of new Ph.D. positions
- Number of Ph.D. applications
- Scientific output (number of Ph.D. related publications) over one year, five years, etc.
- Job/positions after Ph.D.

A Ph.D. proposal

Ph.D. proposal templates are integrated into the R&D project templates. For proposals that are not funded through the R&D programme, please use the European XFEL Ph.D. Proposal form (shown below).



European XFEL

European XFEL Ph.D. Proposal

Summary

Title of Ph.D. project	
Supervisor at EuXFEL	
Academic supervisor (if already known)	
Host (lab, group, instrument)	
Co-financing (if any)	

Abstract

Financial implications in case of exceptional extension

PhD-02-210825.3 (1 of 4)

European XFEL Ph.D. Proposal *(continued)*

Scientific background/motivation

Scientific goals and technical approach

PhD-02-210825.3 (2 of 4)

European XFEL Ph.D. Proposal *(continued)*

Scientific goals and technical approach (continued)

PhD-02-210825.3 (3 of 4)

European XFEL Ph.D. Proposal *(continued)*

Time schedule with milestones

Year 1

Year 2

Year 3

Additional information (resources, collaborations, available candidates)
Feel free to add/attach any information you believe may aid panel members in making their decision

PhD-02-210825.3 (4 of 4)

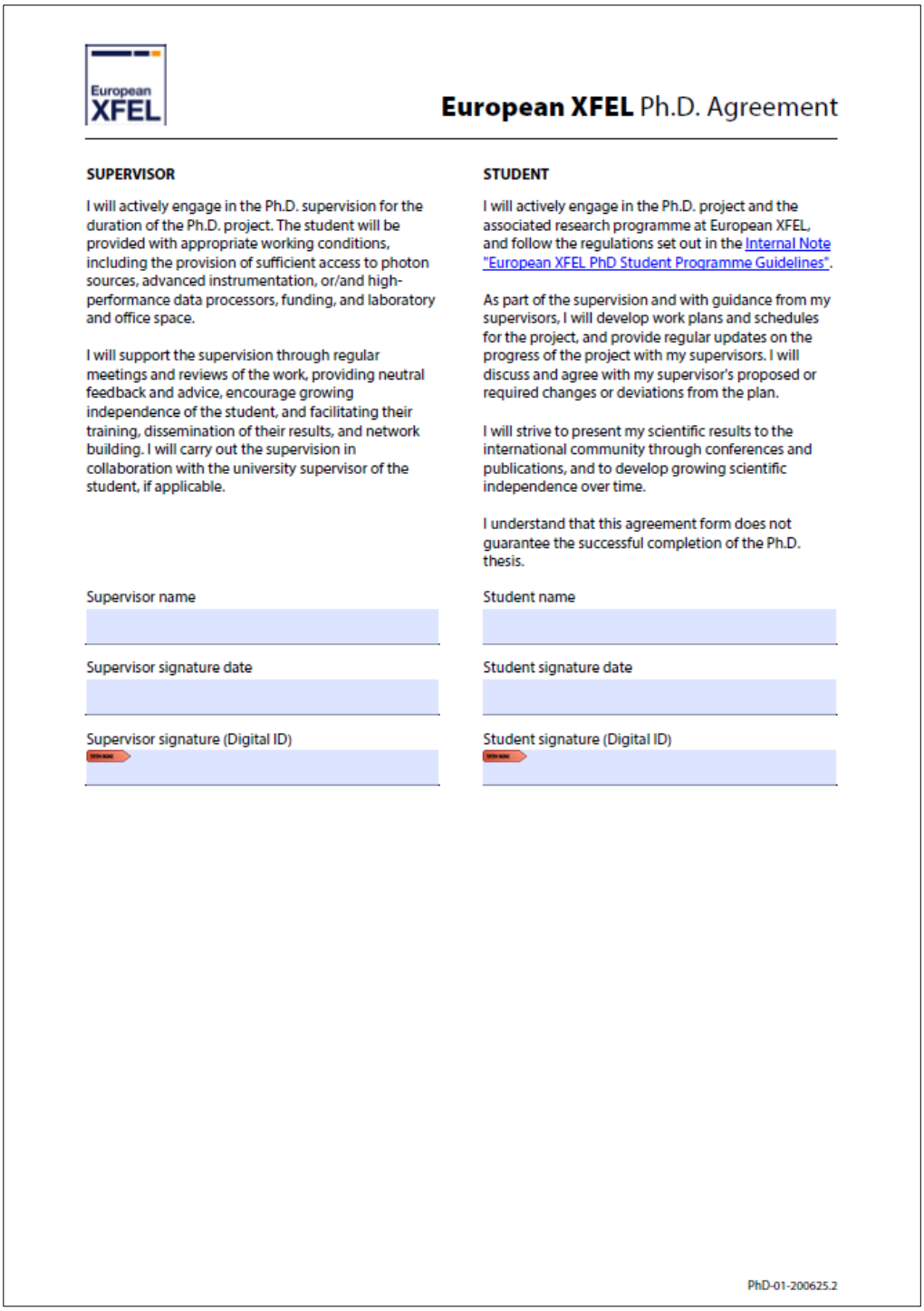
B Summary of stages in a Ph.D. contract

Student's name: XXX	Local supervisor: YYY	Tutor: ZZZ	
Start date	Month M0	End date	Month M36

Timeline		**Actions**
Start of contract	M00	Formal introduction to director in charge and tutor
Six months	M06	Revised and updated version of Ph.D. project plan; Ph.D. Agreement Form (Appendix C) signed by both local supervisor and student
< First year	M12	Poster at Students' Day
First year	M12	Informal presentation; short written report; short progress report (local supervisor)
< Second year	M24	Poster at Students' Day
Second year	M24	Formal presentation; short written report; short progress report (local supervisor)
2.5 years	M30	Recommendation on Ph.D. contract prolongation (local supervisor)
During final year	M24–M36	Oral presentation at Students' Day Finished manuscript and submission

C Ph.D. agreement

The online European XFEL Ph.D. Agreement form is shown below.



European XFEL

European XFEL Ph.D. Agreement

SUPERVISOR

I will actively engage in the Ph.D. supervision for the duration of the Ph.D. project. The student will be provided with appropriate working conditions, including the provision of sufficient access to photon sources, advanced instrumentation, or/and high-performance data processors, funding, and laboratory and office space.

I will support the supervision through regular meetings and reviews of the work, providing neutral feedback and advice, encourage growing independence of the student, and facilitating their training, dissemination of their results, and network building. I will carry out the supervision in collaboration with the university supervisor of the student, if applicable.

Supervisor name

Supervisor signature date

Supervisor signature (Digital ID)

STUDENT

I will actively engage in the Ph.D. project and the associated research programme at European XFEL, and follow the regulations set out in the Internal Note "European XFEL PhD Student Programme Guidelines".

As part of the supervision and with guidance from my supervisors, I will develop work plans and schedules for the project, and provide regular updates on the progress of the project with my supervisors. I will discuss and agree with my supervisor's proposed or required changes or deviations from the plan.

I will strive to present my scientific results to the international community through conferences and publications, and to develop growing scientific independence over time.

I understand that this agreement form does not guarantee the successful completion of the Ph.D. thesis.

Student name

Student signature date

Student signature (Digital ID)

PhD-01-200625.2

D Survey of the European XFEL Ph.D. student programme

Name	
Ph.D. topic	
Contract dates	
Local supervisor(s) and affiliation	
Thesis defence date	
Contract duration? Extension (Y/N)?	
Publications related to the Ph.D. work / patent / programme	
Subsequent post held by the student	
Attended beamtimes	
Collaborations	