

**Application Form for a PhD project
InnovaXN - 2019 round**

Title¹ of the PhD project

Keywords

Main research area of the PhD project (please try to check only one):

- | | | |
|--|--|---|
| <input type="checkbox"/> Material Science | <input type="checkbox"/> Life Science and Health | <input type="checkbox"/> Soft Matter |
| <input type="checkbox"/> Chemistry | <input type="checkbox"/> Microelectronics | <input type="checkbox"/> Nanotechnology |
| <input type="checkbox"/> Engineering | <input type="checkbox"/> Agriculture and Food | |
| <input type="checkbox"/> Other, please describe: | | |

ESRF and/or ILL laboratory support facilities needed for your PhD project:

- | | | |
|---|---|--|
| <input type="checkbox"/> Simulation Support (C-Lab) | <input type="checkbox"/> Deuteration Lab | <input type="checkbox"/> Materials Science Support Lab |
| <input type="checkbox"/> PSB Labs | <input type="checkbox"/> PSCM Labs | <input type="checkbox"/> Chemistry Lab |
| <input type="checkbox"/> Cont. Level 2 Biology Lab | <input type="checkbox"/> Sample Environment Support | |
| <input type="checkbox"/> Other, please describe: | | |

¹ An ID number for the project will be added after reception of the document.

1. Partner information

1.1 Principle Investigator (compulsory)

Role: The Principle Investigator (PI) serves as the primary contact person for the PhD project from proposal to thesis defence and is ultimately responsible for its successful organisation. Note that the PI is normally one of the three compulsory supervisors for the PhD project: Industrial Supervisor (IS), Academic Supervisor (AS) and the Local (i.e. ESRF/ILL) Supervisor (LS), whose individual roles are described below.

First name LAST NAME

Position/function

Email and Phone

Name of Institute, Company or University, its address:

Website(s)

1.2 Industrial Supervisor (compulsory if different from the PI)

Role: Other than a possible role as PI, the Industrial Supervisor (IS) is responsible for assuring proper engagement of the Industrial Partner in the PhD project. The industrial Partner is required to provide a letter of commitment with this proposal (a model is provided in the project proposal pack).

First name LAST NAME

Position/function

Email and phone number

Name of Company, its address:

Website

1.3 Academic Supervisor (compulsory if different from the PI)

Role: Other than a possible role as PI, the Academic Supervisor (AS) is responsible for assuring proper engagement of the Academic Partner in the PhD project, including all administrative tasks (e.g. the student's enrolment). Most importantly, the AS serves as the official thesis director (thesis advisor) for the PhD student, meaning that the AS needs to be authorised for such a function by the university. The Academic Partner is required to provide a letter of commitment with this proposal (a model is provided in the project proposal pack).

First name LAST NAME

Position/function

Email and phone number

Name of University, its address

Website

1.4 Local Supervisor from the ESRF or ILL (compulsory if different from the PI)

Role: Other than a possible role as PI, the Local Supervisor (LS) is the primary contact person for the PhD student during the PhD work that takes place mostly at ESRF and/or ILL (i.e. the Local Partner = LP), and the LS is responsible for guiding the student in an efficient execution of the PhD work plan as described in the PhD proposal.

First name LAST NAME

Position/function at ESRF or ILL

Email and phone number

1.5 Local Co-Supervisor from the ESRF or ILL (optional)

Role: The Local Co-Supervisor (LCS) is the second point of contact for the PhD student during the PhD work, which could be convenient e.g. in the case that a PhD project involves experimental work conducted at both the ESRF and the ILL.

First name LAST NAME

Position/function at ESRF or ILL

Email and phone number

1.6 Abstract (1400 characters max)

2. Description of the project

2.1 Scientific case of the Ph.D. proposal

(3 A4 pages max, font size 12, min. margin size not smaller than 15 mm)

Projects are invited to make use of both ESRF synchrotron X-rays and ILL neutron techniques where relevant. High quality proposals are also welcome where only synchrotron X-rays or neutrons are exploited.

- Give a general outline of the thesis topic. Place the thesis work in context by briefly describing the state-of-the art in the relevant field in relation to your project.
- Give an account of any preliminary work you have done in the field. Include references to publications on the topic. Where appropriate, you may enclose copies of the most important publications (in paper or PDF format).
- Give details of the scientific aims of the proposal.
- Indicate which type of experiments are envisaged within the framework of the thesis (specifying the advantage[s] of the ESRF/ILL, the beam line[s] involved and any expected use of ancillary labs at ESRF/ILL and/or partners).
- Identify expensive items which will have to be purchased in the framework of the thesis (with an estimation of their price) and which partner(s) will take it in charge.

2.2 Work plan including timeline

Give a work plan for the thesis project, specifying for each year the objectives (milestones), the methods employed and the expected results.

3. Interest for the student

3.1 Expected mobility

Mobility is a required component of Marie Skłodowska-Curie COFUND training programmes. Briefly describe the expected mobility programme of the student during the project. Include periods at partner premises (minimum three months at the Industry Partner) and other international opportunities (e.g. conferences, scientific training).

3.2 Career opportunities

The Marie Skłodowska-Curie COFUND training programmes aim to develop PhD students with strong career prospects in academia and/or in industry. Briefly describe the assets of this PhD project for the student's career.

4. Expected outcomes and impact

List and detail the expected outcomes in terms of publications and innovation for product or process development, new working methodologies, future competitive advantages, services, etc.

Please emphasise the impact of the project in terms of pre-competitive research of the industrial partner.

5. Additional Information

5.1 Supervisor CVs

Please attach CVs as PDF format document, 2 pages maximum, please limit your patent/publication's list to your top five.

5.2 How did you hear about the InnovaXN PhD programme?

Web pages, ESRF or ILL scientists, ILL Industry Liaison Office, ESRF Business Development Office, Social Networks, Mailing campaign, Other