**Application Form for a PhD project
InnovaXN - 2020 round**

# **Title[[1]](#footnote-1) of the PhD project (max. 90 characters, incl. spaces)**

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# **Research area**

**Main research area of the PhD project (please try to check only one):**[ ] Materials Science [ ] Life Sciences and Health [ ] Soft Matter

[ ] Chemistry [ ] Microelectronics [ ] Nanotechnology

[ ] Engineering [ ] Agriculture and Food [ ] Applied Physics

[ ] Other, please describe: …………………………………………………………………………………………………………………

**ESRF and/or ILL laboratory support facilities needed for your PhD project:**[ ] Simulation Support (C-Lab) [ ] Deuteration Lab [ ] Materials Science Support Lab
[ ] PSB Labs [ ] PSCM Labs [ ] Chemistry Lab

[ ] Cont. Level 2 Biology Lab [ ] Sample Environment Support

[ ] Other, please describe: …………………………………………………………………………………………………………………

# **Keywords for a job advert (max 3)**

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# **Partner information**

##  **Principal Investigator (compulsory)**

*Role: The Principal 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:

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Website(s): ………………………………………………………………………………………………………………………………………….

## **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:

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Website: ………………………………………………………………………………………………………………………………………………

## **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:

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Website:

## **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: ……………………………………………………………………………………………………………………

## **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: ………………………………………………………………………………………………………….

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## **Abstract (1400 characters max)**

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# **Interest for the student**

## **Expected mobility**

*Mobility (i.e. conferences, training, secondment etc) is a required component of Marie Sklodowska-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). A maximum of 6 months mobility for secondment is permitted.* The InnovaXN programme has limited funds, and therefore co-financing of mobility by the academic and/or industrial partners, although not required, is very welcome.

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## **Career opportunities**

*The Marie Sklodowska-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.*

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# **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*.

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# **Additional Information**

## **Supervisor CVs**

*PDF format, 2 pages maximum, please limit your patent/publication's list to your top five*.

## **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*

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## **Basic information on partner contributions to the project**

This information is requested to help speed up the preparation of a collaboration agreement should the PhD project proposal be selected.

ESRF possesses valuable expertise within the field of XXXXXX, in particular synchrotron X-rays applied to XXXXXX. ESRF will therefore contribute its know-how of XXXXX techniques, especially XXXX and XXXX to the Research Project (as defined below).

ILL possesses valuable expertise within the field of XXXXXX, in particular neutrons techniques applied to XXXXXX. ILL will therefore contribute its know-how of XXXXX techniques, especially XXXX and XXXX to the Research Project (as defined below).

The COMPANY is performing R&D in the area of XXXX and has developed expertise and associated know how within the field of XXXXX, in particular XXXXX.

The UNIVERSITY is a research and teaching institution and possesses particular skills and expertise in the field of XXXX. In particular, XXXXX.

## **Administrative information**

In general all InnovaXN PhD projects have 36 months supported by the programme with the students concerned having work contracts carried by the ESRF or ILL during the whole duration of the PhD for these 36 months. Students recruited from the second project call of InnovaXN are expected to start on 7 September 2021 (to be confirmed).

1. **Industrial administrative information**

|  |  |
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| **Total duration of secondment at the company/enterprise as industrial partner**? *Minimum 3 months at the industrial partner. The total secondment duration to all partners (academic and industrial) is limited to 6 months.* |  |
| **1st legal representative authorised to sign the collaboration agreement.**Title, first name, last name:Email & phone:Function: |  |
| **2nd legal representative authorised to sign the collaboration agreement (if required)**Title, first name, last name:Email & phone:Function: |  |
| **Budget & resources** made available by the partner, if any (e.g. equipment, travel and accommodation, etc.) |  |
| **For administrative questions:**First name, last name:Function:Email & phone: |  |
| **For financial questions:**First name, last name:Function:Email & phone: |  |
| **Contact for legal aspects, if different from the above**Title, first name, last name:Email & phone:Function: |  |
| Please provide any **further information**, which may be important for establishing the collaboration agreement. |  |

1. **Academic administrative information**

|  |  |
| --- | --- |
| **Total duration of secondment at the academic institution**? *Minimum 3 months at the industrial partner.* *The total secondment duration to all partners (academic and industrial) is limited to 6 months.* |  |
| **1st legal representative authorised to sign the collaboration agreement**.Title, first name, last name:Email & phone:Function: |  |
| **2nd legal representative authorised to sign the collaboration agreement (if required).**Title, first name, last name:Email & phone:Function: |  |
| **Budget** **&** **resources** made available by the academic institution, if any (e.g. equipment, travel and accommodation, etc.) |  |
| **For administrative questions**:Title, first name, last name:Email & phone:Function: |  |
| **For financial questions:**Title, first name, last name:Email & phone:Function: |  |
| **Contact for legal aspects if different from the above**Title, first name, last name:Email & phone:Function: |  |
| Please provide any **further information**, which may be important for establishing the collaboration agreement. |  |

# ***Description of the project***

***Provide the information detailed below on three A4 pages max, font size 12, min. margin size not smaller than 15 mm****.*

## ***Scientific case of the Ph.D. proposal***

*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.*

* *Begin with an overview of the thesis topic, in the form of an abstract and/or brief introduction. 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/lLL, 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.*

## ***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.*

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