**Spring 2021 PhD Program**

**Application Form**

* *The 2021 call of the PhD programmes is common to LANEF and Fondation Nanoscience. However, each programme has its own requirements. You must take note of them (see section C1 to C2).*
* *It is possible, even encouraged, to apply to both programmes as long as your project fits clearly the specific requirements (see section C1 to C2).*
* *The application form for all the calls has to be sent by the applicant to* phd-program@grenoble-lanef.fr ***before 2021, April 2, 11:59 am (Paris time).***
* *The recommendation form (section F) has to be sent by the referee directly to* phd-program@grenoble-lanef.fr ***before 2021, April 2, 11:59 am (Paris time).***

**A – Applicant and Thesis Information**

**Applicant:**

|  |  |
| --- | --- |
| Family Name |  |
| First Name |  |
| Gender |  |
| Nationality |  |
| Date of Birth | *dd/mm/yyyy* |
| Email Address |  |
| Phone number | *+00 (0)0 00 00 00 00 00* |
| Mobile number | *+00 (0)0 00 00 00 00 00* |
| Home Address | *Street – Postal Code - City**COUNTRY* |

**Thesis Title:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Expected****starting date :** | *dd/mm/yyyy* | **Doctoral school:***(*[*List of Grenoble schools*](https://doctorat.univ-grenoble-alpes.fr/en/doctoral-studies/the-doctoral-schools/)*)* |  |

**Thesis Supervisors:**

|  |  |  |
| --- | --- | --- |
| Family Name |  |  |
| First Name |  |  |
| Laboratory |  |  |
| Email Address |  |  |
| Phone number | *+00 (0)0 00 00 00 00 00* | *+00 (0)0 00 00 00 00 00* |
| Mobile number | *+00 (0)0 00 00 00 00 00* | *+00 (0)0 00 00 00 00 00* |

**To which programs do you apply ?**

*As long as you are eligible, you can apply to the following Doctoral Programmes. Different programmes have different eligibility criteria.*

 Fondation Nanosciences ☐ LANEF ☐

**Insert in the following page a copy of your passport, and of your bank information.**

**Summary of the Thesis Project:**

*Please type your text here. 20 lines max. Copy and paste in section F.*

**B – Scientific Program**

*This section may contain up to* ***5 pages max****.*

**Part 1: Scientific project description**

* *Context and position of the project on the international scale,*
* *Scientific targets,*
* *Originality and innovative aspects of the project*
* *Expected outputs*
* *Description of the thesis objectives and of the proposed research programme: strategy, methods and techniques, expected timing*
* *Specify how the thesis will contribute to the expected project achievements.*

**Part 2: Driving forces and outcomes of the project**

**Part 3: Connection between the thesis supervisors and the applicant**

*Describe the context in which the student and their thesis supervisors have met and built this project (based on previous collaborations – or on a spontaneous introduction). Highlight also any existing relations between the thesis supervisors and the referees chosen to write the Letters of Recommendation (see section F).* *Indicate whether direct interactions / phone conversations between the thesis supervisor(s) on one hand, the applicant and these referees on the other hand, have helped to prepare this project*

**Part 4: Applicant particular assets for the project.**

 **C – Programme specific information**

**C1- LANEF**

If you want to apply to the [LANEF](https://www.grenoble-lanef.fr) Doctoral programme, please provide the following information.

1. **LANEF Laboratory:**

*Indicate which labs are related to your project with a cross (x) and identify the main hosting lab with a doubled cross (xx).*

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| NEEL |  | IRIG |  | G2ELab |  | LIPhy  |  | LNCMI  |  | LPMMC  |  |

1. **Relevant Challenge(s):**

*Indicate which challenges are related to your project with a cross (x) and highlight the main one with a doubled cross (xx).*

|  |  |  |  |
| --- | --- | --- | --- |
| Quantum Materials |  | Nanophysics and Quantum Engineering |  |
| Electrical Energy |  | Sensors for Life Science and Healthcare |  |
| New frontiers in cryogenics |  |  |  |

1. **Contribution to LANEF’s synergies**

*Indicate how the project will contribute to one of these four LANEF’s objectives:*

1. *Enhance the synergies between the six labs (Co-direction and co-supervised PhD thesis are strongly encouraged.)*

 *or*

1. *Establish inter-Labex collaborations inside UGA. (The projects must be submitted in parallel to the two Labex. The coordinators of the two Labex must be informed in the early stage of the submission.*

*or*

1. *) Establish new collaborations with partnering labs of R&D (such as LÉTI, LITEN…) and healthcare labs (Precise the co-funding or the support)*

*or*

1. *Reinforce collaborations with the private sector (Indicate whether the PhD project includes a strong collaboration with such R&D laboratories and private sector: how much time?, precise also the co-funding or the support).*

**d) Additional remarks:**

***(1) Industrial secondment*** *is a possible option. In such case, indicate in which company or Research and Development centers you will carry out your industrial secondment. On which topic? For how long (minimum 2 months)? See the GreQuE web page at* [*https://quantum.univ-grenoble-alpes.fr/join-us/industrial-partners/*](https://quantum.univ-grenoble-alpes.fr/join-us/industrial-partners/) *for a list of industrial partners. What is your motivation for doing this industrial secondment?*

***(2) PhD cofunding*** *with other programs or institutions is possible; in this case you must describe it in the application form, and include an official document of acceptance by this program/institution with indication of 18 Months of salary (if duly justified, the official document may be sent later but it must be received before June first).*

***(3) LABEX co-funding****: 2 coordinators acting as PhD director and co-director (or co-supervisor) should be identified. They should be issued from two distinct research units, one belonging to the other LABEX network and the other to the LANEF's network. The topic should be focused at the interface between the scientific programs of the two LABEX. The project description should highlight the benefits of the collaboration between the two laboratories and explain how the applicant will manage his/her time between the two laboratories.*

**BEFORE APPLYING!!**

Make sure to contact the [steering committee member](https://www.grenoble-lanef.fr/the-network/governance) of your (main) relevant research domain. He/she will check that your application form contains the information required for the jury to evaluate your profile and PhD project.

**C-2 Fondation Nanosciences**

If you apply to the Doctoral Programme of the Fondation Nanosciences, please provide the following information.

1. **Organism receiving the PhD grant funding:**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| CEA |  | CNRS |  | UGA |  | Grenoble INP |  | INRIA |  |

1. **Relevant Theme(s):**

*Indicate which themes are related to your project with a cross (x), highlight the main one with a doubled cross (xx).*

|  |  |  |  |
| --- | --- | --- | --- |
| Quantum Nanoelectronics  |  | Nanomaterial, Nanobonding and Nanostructuration |  |
| Nanomagnetism and Spintronics |  | Nanocharacterisation and Nanometrology |  |
| Nanophotonics |  | Nano-approaches to life sciences |  |
| Molecular electronics  |  | Nanomodeling: theory and numerical simulation |  |

1. **Federative aspects of the project within the scientific community**

*Please indicate if the thesis will be part of a project involving several Grenoble laboratories.*

*If so, you must indicate if the PhD student is expected to work within different teams – in accordance with a clear planning.*

*Reminder: The proposition of a research project which involves more than one of the 33 labs of the network would fully fit the networking strategy at the core of the Fondation and would have a greater chance of being selected.*

**D – Curriculum Vitae of the applying student**

*Make sure the CV contains the following information:*

* *Gender, Date/Place of Birth, Nationality*
* *University education, copy of the master degree diploma (if obtained already) or information about the master degree (to be obtained soon)*
* *Previous occupied job positions*
* *Applicant’s current situation*
* *Applicant’s research activities*
* *Applicant’s list of publications, posters, patents, etc...*
* *English proficiency test results if relevant*
* *... and any other information helping to establish the applicant’s excellence level*

*The student’s application form must also contain:*

* ***One cover letter*** *indicating why the applicant wants to prepare a PhD, what he/she expects from these three years, and what are his/her plans for his/her future career.*
* ***At least two recommendation letters for the applicant.***

*They must be written in accordance with the letter template (available at the end of this application form****, in section F****) and be sent* ***directly by their author*** *to* phd-program@grenoble-lanef.fr *. Note that this mail address will deal with the four PhD programmes.*

*One of these letters must be written by a professor in charge of the student’s master degree.*

***This CV must be completed with a complete statement
of the student’s exam results - delivered by his/her University.***

***University’s ranking information (if available) must also be provided.***

**E - Commitment and Agreements**

**Host Laboratory Agreement:**

|  |  |
| --- | --- |
| **Hosting Laboratory**  | *Lab Name* |
|  |  |  |
| Thesis supervisor: | *Name:* | *Signature* |
|  |  |  |
| Laboratory Director: | *Name:* | *Signature* |
|  |  |  |

**Thesis Applicant Agreement:**

**Applicant’s signature:**

**Date:**

**F –** **Letter of Recommendation (2 pages) – to be sent separately to (at least) 2 referees**

The green sections are to be filled by the applying student

|  |
| --- |
| **This letter of recommendation is for a PhD application at xx Laboratory in France on the subject of: xxxx** |
| **A. General** |
| *Applicant’s full Name :*  |  |
| *Applicant’s email:*  |  |
| *Referee’s full Name:* |  |
|  |
| **B. Relation of referee to applicant** |
| *1) I have known the applicant in the following capacities*  |
| *Please use x* |  | Courses | Comments |
|  | as an (under)graduate student or equivalent |  |  |
|  | as a master student |  |  |
|  | as a teaching/research assistant |  |  |
|  | as a professional colleague |  |  |
|  | by reputation |  |  |
|  | Other: |  |  |
| *2) I was acquainted with the applicant and his/her work from dd/mm/yyyy to dd/mm/yyyy*  |
| *3) I had a* \_\_ poor \_\_ fair \_\_ good \_\_ excellent *opportunity to observe the quality of the applicant’s work* |
| *4) If the applicant is/was a student how does he/she compare with students currently in your department/class* |
| *5) Please indicate (with a x) on this scale, your overall impression of the applicant* |
| Below average | Average | Above average | Excellent | Outstanding | Insufficient opportunity to judge |
|  |  |  |  |  |  |

|  |
| --- |
| **C. Recommendation Letter** |
| **For applicants in Physics/Computer Sciences/Mathematics** |
| *Please assess the applicant’s*  | poor | fair | good  | excellent*top 10%* |  Outstanding*top >1%* |
| Overall knowledge of physics and/or nanotechnologies |  |  |  |  |  |
| Skill in experimental design |  |  |  |  |  |
| Technical abilities |  |  |  |  |  |
| Innovative abilities/creativity |  |  |  |  |  |
| Ability to work independently |  |  |  |  |  |
| Analytical abilities |  |  |  |  |  |
| Skills in reporting and interpreting data |  |  |  |  |  |
| Language (learning) skills |  |  |  |  |  |

|  |
| --- |
| **For applicants in Social sciences/Philosophy** |
| *Please assess the applicant’s*  | poor | fair | good  | excellent*top 10%* |  Outstanding*top >1%* |
| Research skills |  |  |  |  |  |
| Reasoning / good judgment |  |  |  |  |  |
| Originality / creativity |  |  |  |  |  |
| Oral / written communication skills |  |  |  |  |  |
| Scientific production and experience |  |  |  |  |  |
| Ability to work independently |  |  |  |  |  |
| Initiative capability |  |  |  |  |  |

|  |
| --- |
| ***Please comment, if possible, on the overall applicant’s scientific and technical abilities, both in comparison with other students/scientists/engineers with similar training and experience and provide your overall recommendation for the applicant to carry out a PhD (autonomy, motivation, curiosity…). A short description of the PhD is given below.*****Please add your full contact details, describing precisely your institution / laboratory:****Please send this recommendation letter directly by email to** phd-program@grenoble-lanef.fr***.*****Note that this mail address will deal with the four PhD Programmes.*****An acknowledgement of receipt will be sent to you and to the applying student.*** |

**Summary of the Thesis Project:**

*Please type here the* [*summary of the section A*](#Summary) *of your application form, before sending it to the referee.*