



Projet « Compétences et Métiers d'Avenir »

QuantEdu-France

2022 Call – « PhD fellowship »

Context and objectives

The Institute for Quantum Technologies in Occitanie brings together all the Occitan key-players in the field, including academic research institutions but also private companies. It aims at fostering knowledge sharing and scientific excellence in this research field, strengthening research transfer and preparing students and engineers around quantum technologies.

The Institute for Quantum Technologies in Occitanie, through the Montpellier University, the INSA Toulouse and Paul Sabatier University in Toulouse, participates in the ANR QuantEdu-France project within the framework of the National Strategy on Quantum Technologies. Pending selection for funding, this project includes the allowance of PhD grants. The PhD topics shall focus on the following specific topics: quantum computing, quantum communications, quantum sensing and quantum simulation. The present call of the Institute for Quantum Technologies in Occitanie is for the award of one doctoral scholarship, subject to the selection of the QuantEdu-France project.

Beneficiaries

The thesis will have to be carried out in close collaboration between two research units located respectively in the Montpellier campus and in the Toulouse campus. The eligible laboratories are

- on the Montpellier campus: L2C (UMR 5221), IES (UMR 5214), LIRMM (UMR 5506), IMAG (UMR 5149), IGCM (UMR 5253),
- on the Toulouse campus: LPCNO (UMR 5215), LAAS (UPR 8001), CEMES (UPR 8011), LCAR (UMR 5589), LPT (UMR 5152), IMT (UMR 5219), LCPQ (UMR 5626), LNCMI (UPR3228).

The research topic will have to target, in a short, mid or long run, applications in one or several of the following research fields:

- quantum computing,
- quantum communications,
- quantum sensing,
- quantum simulation.

Eligibility rules

The project shall last for a maximum duration of 3 years (in case of extension, the amount of aid will remain unchanged).

The documents to be submitted are:

- The description of the PhD program (following the provided template)
- The CV of the candidate, including his/her track records during his/her Master studies.

The eligible expenses concern solely the gross salary of the doctoral student on the basis of the wages of the PhD supervisor's associated University.

Application

How to apply

Download the PhD call application form. Fill the document that has to be written in English. Save the document in a single pdf file with a maximum size of 5 Mo. The file name should be the following:

2022TQO_PhD_Acronym_SupervisorFamilyName.pdf

Send the pdf file with the candidate's CV and Master track records by email to bureau@iqoc.fr, by **23th May 2022, 11:59 AM**.

Applications will be acknowledged within five working days.

Selection procedure

After verifying its eligibility, each application will be sent to two independent reviewers. A steering committee session will be held by **end of June 2022**, in order to preselect the projects on the basis of the reviewers' reports. Final results will be announced a few days later. Non-preselected projects will receive a report thereafter.

Contact

For more information about the call, please contact David Guéry-Odelin, Xavier Marie or Isabelle Robert-Philip by email to bureau@iqoc.fr.