



Défi clé Technologies quantiques

2022 Call – « PhD fellowship »

Context and objectives

The Institute for Quantum Technologies in Occitanie was launched in January 2021. It gathers all the Occitan key-players in the field, from 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 Occitanie Region has decided to finance this operation for 4 years via the key challenge "Quantum Technology". This challenge targets the settling of a regional world-class ecosystem around quantum technologies, building on the high level of expertise gathered on its territory in this field. This support includes the allowance of half PhD grants. The scholarships will be attributed on the following specific topics: quantum computing, quantum communications, quantum sensing and quantum simulation.

Beneficiaries

The thesis will have to be carried out in:

- Public higher education and / or research institutions in the Occitanie region,
- Research organizations in the Occitanie region,
- Regional private establishments.

Collaborative projects, involving more than one partner at the Region level, are encouraged.

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 must meet the following conditions:

- Completion of a thesis in either:

- a research unit located in the region, that shall be involved in research activities on quantum technologies, and that include: the LPCNO (UMR 5215), the LAAS (UPR 8001), the CEMES (UPR 8011), the LCAR (UMR 5589), the LPT (UMR 5152), the IMT (UMR 5219), the LCPQ (UMR 5626), the LNCMI (UPR3228), the L2C (UMR 5221), the IES (UMR 5214), the LIRMM (UMR 5506), the IMAG (UMR 5149).
- a Regional private establishment, within a collaboration with one of the research unit listed in the previous item. In that context, the private establishment shall provide the complementary co-funding of the PhD grant.
- Project with a maximum duration of 3 years (in case of extension, the amount of regional aid will remain unchanged);
- Completed application file submitted before **7th February 2022, 11:59 AM**;
- Confirmation of cofinancing acquired by **1st July 2022** at the latest.

The eligible expenses concern half of the gross salary of the doctoral student on the basis of the CNRS wages. Expenditures for the purchase of equipment, consumables, small supplies, bonuses and benefits are not provided in the employment contract; non-individualizable taxes, or indirect costs are ineligible.

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 :

2021TQO_PhD_Acronym_SupervisorFamilyName.pdf

Send the pdf file by email to bureau@iqoc.fr, by **7th February 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 the **mid-March 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. A final selection of the preselected projects will be confirmed after submission of the PhD applicant's curriculum vitae, that will have to be sent by email to bureau@iqoc.fr by **1st July 2022**.

Contact

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