PhD Course in Information Technologies (XXXVIII cycle)
Department of Engineering and Architecture, University of Parma (Parma, Italy)
Open PhD Position in Quantum Software

Full title

Study and development of compilation and execution management services for distributed quantum computing

Description

We are looking for a PhD Student that will conduct research (and develop software) for distributed quantum computing - from compiling to execution management - in the context of the Quantum Internet Alliance (QIA) mission.
The ideal candidate has a master's degree in Computer Engineering, Computer Science or Physics, with experience in designing and developing quantum software.

Required Skills & Experience
- Programming skills in Python
- Understanding of Algorithms and Data Structures
- High degree of creativity and proactiveness
- Fluency in English

Preferred Experience
- Some knowledge of quantum computing, quantum information, quantum networking
- Software design principles
- Familiarity with microservice technologies

What we offer
We are a research team specialised in parallel, distributed and quantum computing. We have several ongoing collaborations, with national and international researchers in computer engineering and physics. The proposed activity lies within the first phase of the Quantum Internet Alliance mission, funded by the European Commission in the context of the Horizon Europe programme. Therefore, the PhD Candidate will have the opportunity to collaborate with excellent European partners, also spending a period abroad.

The PhD course will start on the 1st of January 2023 and will last 3 years.

The competition notice will be published on Friday, the 28th of October, on the following website: https://www.unipr.it/en/doctoral-doctoral-enrollment

In any case, if you plan to apply, please contact:
Prof. Michele Amoretti (michele.amoretti@unipr.it)

Website: https://www.qis.unipr.it/quantumsoftware.html