2018-00561 - Postdoc in quantum error correction

Renewable contract : Oui
Level of qualifications required : PhD or equivalent
Function : Post-Doctoral Research Visit

Context
The post forms part of the QCDA European network on Quantum Code Design and Architecture. QCDA is funded through the QUANTERA programme running from 2018 to 2021 with nodes in Paris, Sheffield, London, Delft and Munich. Further details on QCDA can be found at www.qcda.eu.

Assignment
Research on quantum error correction

Main activities
Research activity on the design and decoding of quantum low-density parity-check codes and/or error correcting codes for continuous-variable quantum systems

Skills
You should possess, or be close to obtaining, a PhD in the theory of quantum computing or a related field (or have equivalent experience). You will have experience in quantum error correction and fault tolerant quantum computing. You may have an undergraduate background in any relevant area such as Physics, Mathematics, Computer Science or Electrical Engineering.

Benefits package
- Subsidised catering service
- Partially-reimbursed public transport

General Information
- Theme/Domain : Algorithmics, Computer Algebra and Cryptology
- Town/city : Paris
- Inria Center : CRI de Paris
- Starting date : 2018-09-01
- Duration of contract : 12 months
- Deadline to apply : 2018-04-19

Contacts
- Inria Team : SECRET
- Recruiter : Leverrier Anthony / anthony.leverrier@inria.fr
**Conditions for application**

**Defence Security :**
This position is likely to be situated in a restricted area (ZRR), as defined in Decree No. 2011-1425 relating to the protection of national scientific and technical potential (PPST). Authorisation to enter an area is granted by the director of the unit, following a favourable Ministerial decision, as defined in the decree of 3 July 2012 relating to the PPST. An unfavourable Ministerial decision in respect of a position situated in a ZRR would result in the cancellation of the appointment.

**Recruitment Policy :**
As part of its diversity policy, all Inria positions are accessible to people with disabilities.

**Warning :** you must enter your e-mail address in order to save your application to Inria. Applications must be submitted online on the Inria website. Processing of applications sent from other channels is not guaranteed.