

Research Scientist - Quantum Computing - Paris (France)

Wed, 2017-09-20 10:46 - [Cyril ALLOUCHE](#) [1] **At:** Atos R&D, France

Deadline: 31 December, 2017

Location

Atos rue du gros caillou
LES CLAYES SOUS BOIS F-78340 France
48° 49' 24.312" N, 1° 58' 34.9464" E

We're looking for a research scientist, permanent position, in the field of quantum computing, more precisely:

- classical quantum simulation on HPC systems
- quantum programming, in particular compilation techniques, optimisation of quantum circuits

Mission:

- * design and develop innovative algorithms for high performance simulation of quantum programs, namely 40+ qubits
- * prototype and implement on HPC systems, relying in particular on hardware accelerators (GPU, FPGA)
- * implement numerical models of quantum hardware noise, on HPC systems, in order to simulate fault computation and optimize QECC
- * design and develop innovative algorithms of quantum code optimizations, in particular resource minimization
- * mentor PhD students and interns

Required Skills:

- * expertise in at least one domain : classical simulation, quantum algorithmics, quantum programming languages
- * hands-on programming with good knowledge of HPC techniques: openMP, MPI, CUDA ; C,C++,Python
- * PhD strongly appreciated

Context:

Permanent position will be in Paris' region, France, in our Quantum R&D team, one of the biggest private lab in Europe.

To apply or request additional information, please contact Dr Cyril ALLOUCHE, head of research. [cyril dot allouche at atos dot net](mailto:cyril.allouche@atos.net)

- [Position](#) [2]

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