

# RobustSuperQ – Job offer

Junior Research Leader

## In Experimental Quantum Computing

### Job description

You will work on quantum computing with hybrid quantum devices where electron and nuclear spins are coupled to superconducting resonators and qubits. More precisely, you will develop a novel quantum computing architecture where qubits are encoded in the state of individual nuclear spins, and are detected through their hyperfine coupling to paramagnetic rare-earth-ions inserted in a crystal, which are addressed via superconducting microwave resonators and microwave photon counters.

You will be working in collaboration with the consortium of RobustSuperQ and have access to its fabrication facilities. A dedicated dilution refrigerator and substantial funding will be made available to realize the project.

At Quantronics Group, SPEC, CEA Saclay, 91191 Gif-sur-Yvette, France

<https://iramis.cea.fr/spec/Pres/Quantro/static/index.html>

Starting date : early 2023

Apply before : 1/11/22

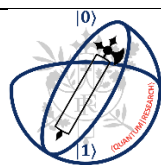
### Job requirements

The candidate must have expertise in quantum physics at low temperatures, a PhD, and a good track record

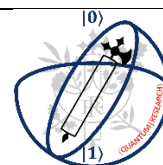
### How to apply

Please send your application to [patrice.bertet@cea.fr](mailto:patrice.bertet@cea.fr)

Required documents: *CV, publication list, research statement, recommendation letters*



PROGRAMME ET  
EQUIPEMENTS  
PRIORITAIRES DE  
RECHERCHE  
**QUANTIQUE**



FRANCE  
**QUANTUM**  
BASIC  
RESEARCH  
PROGRAMME

<https://www.robustsuperq.fr>

Position : Junior Research Leader

Location: Paris <https://iramis.cea.fr/spec/Pres/Quantro/static/>

Contact: [patrice.bertet@cea.fr](mailto:patrice.bertet@cea.fr)