13/05/2019

Marie Curie Actions

Quantum Science and Technologies at the European Campus (QUSTEC)

Where to apply

Application Deadline: 19/08/2019 17:00 - Europe/Brussels

Contact Details

Where to send your application.

COMPANY Eucor - The European Campus

WEBSITE
https://www.eucor-uni.org/en/qustec

Hiring/Funding Organisation/Institute

ORGANISATION/COMPANY
Eucor - The European Campus

ORGANISATION TYPE
International / Intergovernmental Organisation

WEBSITE
https://www.eucor-uni.org/en

COUNTRY
Germany

CITY
Freiburg

POSTAL CODE
79085

STREET
Fahnenbergplatz

PHONE
+33 3 68 85 82 93

MOBILE PHONE

+33 619 37 82 22

ORGANISATION/COMPANY
Eucor - The European Campus

RESEARCH FIELD
Chemistry › Computational chemistry
Chemistry › Physical chemistry
Computer science › Informatics
Engineering › Biomaterial engineering
Engineering › Chemical engineering
Engineering › Computer engineering
Physics › Chemical physics
Physics › Computational physics
Physics › Quantum mechanics
Technology › Chemical technology
Technology › Computer technology
Technology › Materials technology

LOCATION
Multiple locations, see work locations below.

TYPE OF CONTRACT
Temporary

JOB STATUS
Full-time

HOURS PER WEEK
35, 37.5, 42.5

EU RESEARCH FRAMEWORK PROGRAMME
H2020 / Marie Skłodowska-Curie Actions COFUND

Technology › Nanotechnology
Technology › Quantum technology

MARIE CURIE GRANT AGREEMENT NUMBER
847471

RESEARCHER PROFILE
First Stage Researcher (R1)

APPLICATION DEADLINE
19/08/2019 17:00 - Europe/Brussels

QUSTEC offers 39 early-stage researchers interdisciplinary, intersectoral and international training in the field of quantum science and technologies (QST).

Coordinator is the European Grouping of Territorial Cooperation (EGTC) **Eucor – The European Campus** that consists of five universities that are located in the trinational research area of the Upper Rhine, at the border between France, Germany and Switzerland.

For QUSTEC, the Eucor Members **University of Basel, University of Freiburg**, **University of Strasbourg** and the **Karlsruhe Institute of Technology** are joined by **IBM-Research in Zurich**. The QUSTEC training programme is in line with the European Charter for Researchers, the Code of Conduct for the Recruitment of Researchers and the EU Principles for Innovative Doctoral Training. Fellows can choose their position among the offer of the partner organisations and will be enrolled in a doctoral programme of one of the partaking universities. They will be selected in an open, transparent, merit-based procedure based on international peer review.

All fellows will be offered a **generous 4-year employment contract** with the corresponding social security provisions. An individual training panel in a three-tier training programme will supervise them.

With a budget of 9 139 308,48 Euro and an overall duration of 5 years, the QUSTEC programme offers one call and one reserve call for doctoral candidates from the science, technology, engineering and mathematics (STEM) field.

The **scientific focus** lies on the six scientific areas of **quantum electronics, artificial quantum systems, quantum nano devices, non-equilibrum quantum systems, quantum resources, and quantum simulation**. The Cofund support will serve as nucleus for early-stage research career training, create synergies among the partner institutions and contribute to Europe’s leadership role in the emerging field of QST.

ADDITIONAL INFORMATION

Selection process

The selection and evaluation process of **QUSTEC follows the principles of the *H2020 Grants Manual*** regarding Excellence, Transparency, Fairness and Impartiality, Efficiency, Speed, Ethics and Security.
The participating member universities of the EGTC Eucor and the partner institutions also adhere to **Charter and Code for the recruitment and employment of researchers** and have extensive experience in recruiting researchers.
The **written evaluation** will be carried out by two independent external evaluators. Each application will be reviewed by two independent evaluators.
Once a candidate has passed the 70% threshold of the written evaluation, an **oral evaluation (interview)** will be carried out by a panel of the future potential supervisor, one independent expert who previously assessed the CV, and one partner organisation representative. At least one member of the selection panel will be female. Interviews will be carried out either via Skype or in person.
More information is in the **Guide for applicants** on the QUSTEC-website (https://www.eucor-uni.org/en/qustec)

Web site for additional job details

https://www.eucor-uni.org/en/qustec

REQUIREMENTS

Required Research Experiences

RESEARCH FIELD
Technology › Quantum technology

YEARS OF RESEARCH EXPERIENCE
1 - 4

RESEARCH FIELD
Technology › Nanotechnology

YEARS OF RESEARCH EXPERIENCE
1 - 4

RESEARCH FIELD
Physics › Computational physics

YEARS OF RESEARCH EXPERIENCE

1 - 4

RESEARCH FIELD

Physics › Quantum mechanics

YEARS OF RESEARCH EXPERIENCE

1 - 4

RESEARCH FIELD

Physics › Chemical physics

YEARS OF RESEARCH EXPERIENCE

1 - 4

RESEARCH FIELD

Physics › Electronics

YEARS OF RESEARCH EXPERIENCE

1 - 4

RESEARCH FIELD

Chemistry › Computational chemistry

YEARS OF RESEARCH EXPERIENCE

1 - 4

RESEARCH FIELD

Chemistry › Physical chemistry

YEARS OF RESEARCH EXPERIENCE

1 - 4

RESEARCH FIELD

Physics › Computational physics

YEARS OF RESEARCH EXPERIENCE
1 - 4

Offer Requirements

REQUIRED EDUCATION LEVEL
Technology: Master Degree or equivalent
Computer science: Master Degree or equivalent
Engineering: Master Degree or equivalent
Chemistry: Master Degree or equivalent
Physics: Master Degree or equivalent
Mathematics: Master Degree or equivalent

REQUIRED LANGUAGES
ENGLISH: Excellent

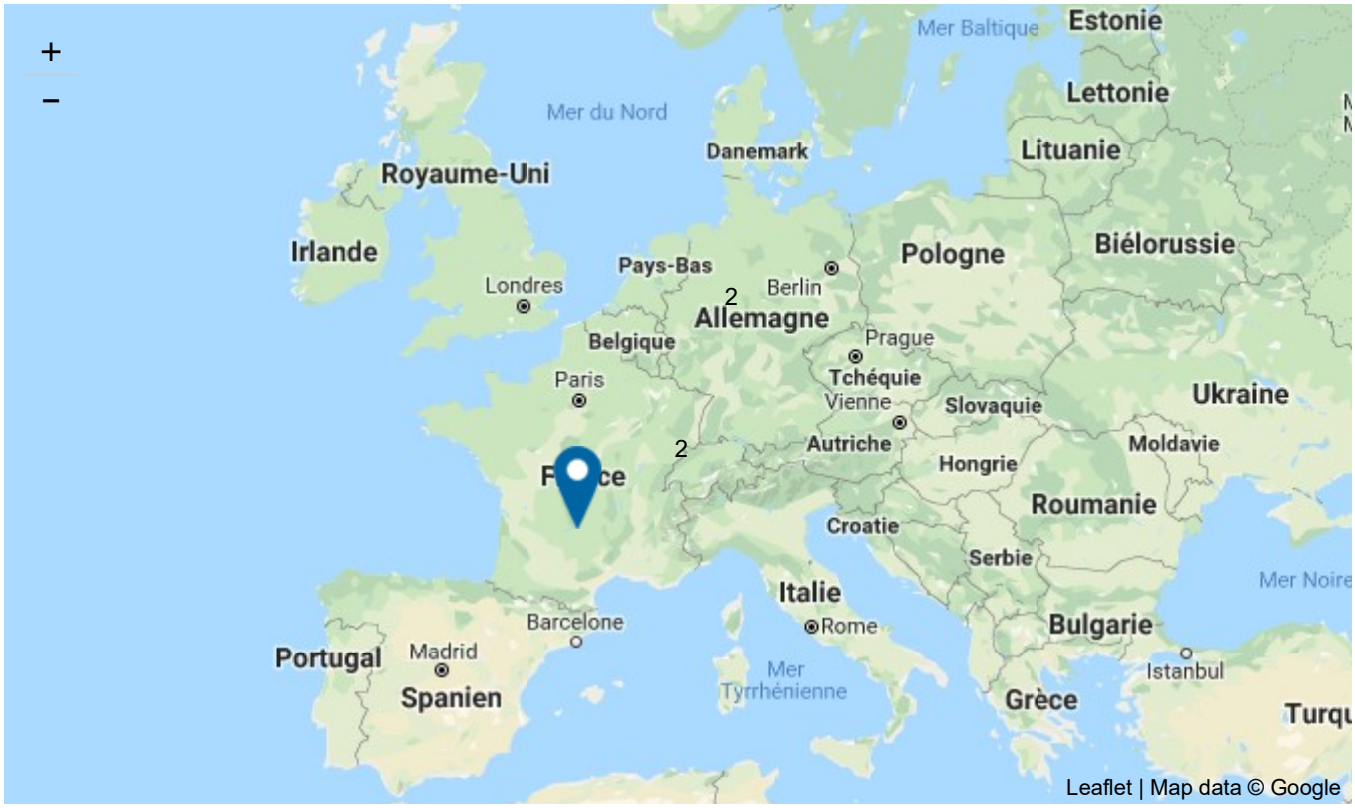
Skills/Qualifications

Excellent MSc degree or equivalent qualification, within top 15% of respective grading system
Excellent skills and knowledge in quantum science and technology, as shown by a Master & Bachelor degree in relevant scientific fields of physics, chemistry, materials or computation

Specific Requirements

QUSTEC offers 39 fellowships of **4 years' duration** to early state researchers within a main call for applications (and if necessary a reserve call).
QUSTEC has two eligibility criteria:
1) **Level of Experience is 'Early Stage Researcher' (ESR), according to the definition in the work programme of the Marie Skłodowska-Curie actions**: The ESR must be, at the date of the respective call deadline of QUSTEC, **in the first four years (full-time equivalent research experience) of their research careers** and not yet have been awarded a doctoral degree.
2) Mobility criterion: The ESR must ***not*** **have resided or carried out their main activity (work, studies, etc.) in the country of the future host organisation for more than 12 months in the 3 years immediately before the call deadline of QUSTEC**. Short stays such as holidays are not taken into account. For refugees under the Geneva Convention, the refugee procedure (i.e. before refugee status is conferred) will not be counted as period of residence/activity in the country of the host organisation.

Map Information



Job Work Location

WORK LOCATION(S)

10 position(s) available at
Université de Strasbourg
France

10 position(s) available at
Universität Basel
Switzerland

5 position(s) available at
Albert-Ludwigs-Universität Freiburg
Germany

6 position(s) available at
IBM Research Zurich
Switzerland

8 position(s) available at
Karlsruher Institut für Technologie
Germany

EURAXESS offer ID: 407311

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