

Open PhD position

A PhD position in the field of nano-superconductivity within the framework of the project SEJIGENT 2021/12 is advertised. The candidate will work at the Institute of Molecular Science in the University of Valencia, joining the project activities led by Dr. Rosa Córdoba to perform studies of advanced nano-superconductors for applications in superconducting circuits. The position comprises all steps towards the studies of advanced nano-superconductors: from the fabrication of the nanostructures to their characterisation, data processing, etc. The candidate will join an international group with close interaction with other groups at the home institution and international collaborators. Experiments at large facilities and supervision of students (bachelor, master) are also included in the activities.

Skills/Qualifications

Applicants should have a MSc in physics, materials science, or a discipline relevant to experimental condensed matter physics.

Previous experience in the fabrication of devices using optical and/or ion/electron lithography techniques, and in their characterisation using magneto-transport measurements, as well as solid computing skills are highly desirable.

The successful candidate should have good interpersonal skills, be able to carry out interdependent research activities within a team, enjoy challenging experimental work and be willing to travel internationally to visit collaborations and attend conferences.

Specific Requirements

Once selected, the successful applicant will need to submit an official application for the PhD program at the [Institute of Molecular Science](#) in the University of Valencia.

Duration: Minimum of 3 years, 40 hours per week.

Salary: Gross salary in the range of 22 k€ p.a., based on the University of Valencia salary scheme.

Additional benefits: Coverage of health insurance and pension contribution within the Spanish Social Security System.

Selection process

Application deadline: 31/03/2022

Position starting date: 01/06/2022

Applications should be sent to rosa.cordoba@uv.es with the subject "PhD position application", and a single .pdf file as attachment with three sections:

- (1) a motivation letter (max. 1 page) describing your previous research experience and what motivates you to work in this project;
- (2) a CV;
- (3) contact details of two referees.

