



Elettra Sincrotrone Trieste

Postdoctoral Research Associate at Spectromicroscopy

Deadline: 30 January 2022

Ref: DB/21/37

Company description

Elettra Sincrotrone Trieste is an international multidisciplinary research center operated as a user facility, featuring a 2.0/2.4 GeV, third-generation synchrotron light source (Elettra), a new free-electron laser light source (FERMI) and a variety of support laboratories. The extremely high quality of the machines and beamlines has set new performance records and has been producing results of great scientific and technological interest. A new generation, diffraction-limited storage ring light source denoted as Elettra 2.0 is under development. See <http://www.elettra.eu> for more information.

Beamline/Activity/Project description

The "Spectromicroscopy" beamline at Elettra operates in the 20-300 eV photon energy range and hosts a low photon energy, scanning-stage, angle-resolved photoemission microscope. Research is mainly carried out in the fields of materials science and solid state physics, focusing in particular on the electronic structure of layered micro- and nanomaterials and high temperature superconductors.

See <http://www.elettra.eu/elettra-beamlines/Spectromicroscopy.html> for more information

Job description

The successful candidate will perform research in close collaboration with the beamline team, addressing subjects related to the electronic properties of graphene, 2D materials and their heterostructures, high Tc superconductors etc. He/she will contribute to the operation, maintenance and upgrade of the Spectromicroscopy beamline and its end station, as well as to the definition and execution of in-house research activities. It is expected and encouraged that the candidate collaborates with the external users of the beamline in a variety of research projects.

Qualifications

A Ph.D. in Physics, Chemistry or a related discipline is required. The candidate must not have more than 6-years of total postdoctoral experience, in academic institutions or private companies. Applications will be considered also from candidates who have completed a doctoral course of studies and for whom the defense has been scheduled. In any case, the Ph.D. must be awarded by the end of January 2022.

Proven experience in at least one of the following techniques is required:

photoelectron spectroscopy and/or microscopy, angle-resolved photoemission spectroscopy and/or microscopy for the study of the electronic structure of materials.

The following qualifications will be considered as additional assets:

Previous participation in experiments at synchrotron radiation facilities

Experience in surface science techniques for surface analysis

Experience in the operation and construction of scientific equipment relevant to UHV systems or for synchrotron beamlines

Programming skills in LabView and/or Igor Pro, with demonstrated ability in data processing

Good time management skills and ability to prioritize are expected, together with the ability to interact with the facility staff and international users at all levels and to work as part of a multi-disciplinary team. Good oral and written communication skills in English are essential.

Elettra - Sincrotrone Trieste S.C.p.A.

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L. 19 ottobre 1999 n. 370

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The appointment will be a fixed term contract with an initial duration of 12 months.

The salary will be commensurate with previous experience and qualifications of the candidate.

Applications should include a full curriculum vitae, the names and contact information (including electronic mail) of up to three persons who have agreed to provide references.

Due to the situation related to the COVID-19 virus, the interviews will be performed through video conferencing.

The deadline for the submission of the application is January 30, 2022.

In accordance with the provisions of article 21 of the Italian legislative decree no. 39/2013 and in conjunction with article 53 (subsection 16ter) of Italian legislative decree no. 165/2001, employees or former employees of any Italian Public Entity who have exercised authority over Elettra Sincrotrone Trieste S.C.p.A. or have negotiated with Elettra - Sincrotrone Trieste S.C.p.A. within the last three years will be excluded from the present selection procedure. We thank all applicants in advance.

For more information, please contact Alexey Barinov (email: alexey.barinov@elettra.eu).

To apply for this position please visit the following link:

<https://www.elettra.trieste.it/it/about/careers/working-withus.html?id=2321>

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