Elettra Sincrotrone Trieste

Spectromicroscopy Research Associate at Elettra

Deadline: 26 May 2020
Ref: DB/20/23

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. See http://www.elettra.eu for more information.

Beamline/Activity/Project description

Unique among the VUV/x-ray setups at Elettra, the "Spectromicroscopy" beamline 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 group, 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 the in-house research activities. It is expected and encouraged that the candidate collaborates with the users of the beamline in a variety of research projects.

Qualifications

A Ph.D. in Physics, Chemistry or a related discipline is required, together with proven experience in at least one of the following techniques: photoelectron spectroscopy and/or microscopy, angle-resolved photoemission spectroscopy and/or microscopy for the study of the electronic structure of materials. Experience in surface science techniques, ultra-high vacuum methods for surface analysis, operation and/or construction of scientific equipment relevant to synchrotron beamlines will be considered a plus, as would programming skills in LabView and/or Igor.

In the case the Ph.D has not yet been awarded, the candidate must prove that he/she has completed the course of studies and the defense has already been scheduled. In any case, the Ph.D. must be awarded by the end of June 2020 .

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

Good oral and written communication skills in English are essential.

The appointment envisioned is a fixed term contract of an initial duration of 12 months. The salary will be commensurate with previous experience and qualifications of the candidate.

Applications should include full curriculum vitae, the names and contact information (including electronic mail) of possibly three references.

The deadline for the submission of the application is May 26, 2020.

In accordance with the provisions of article 21 of the Italian legislative decree no. 39/2013 and in conjunction with article 53 (subsection16ter) of Italian legislative decree no. 165/2001, employees or former employees of any Italian Public

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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?ref=DB%2F20%2F23