



Elettra Sincrotrone Trieste

Postdoctoral position for the EIS-TIMER beamline at FERMI

Deadline: 21 February 2020

Ref: DB/20/5

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

The EIS-TIMER instrument is purposely designed for performing transient grating (TG) experiments in the extreme ultraviolet (EUV) and soft x-ray regime, with the aim of investigating condensed matter dynamics at the nanoscale and the outlook of developing a broader set of soft x-ray four wave mixing (XFWM) spectroscopies. Comprehensive information on the beamline can be found at: www.elettra.eu/lightsources/fermi/fermi-beamlines/eis-timer/eis-timer.html

At present the main research topics tackled by the beamline staff and collaborators include nanoscale thermal transport, ultrafast magnetic dynamics and phonon spectroscopy in non-crystalline solids.

Job description

The successful candidate will be part of the EIS-TIMER team and is expected to propose and develop his/her original research project, mainly based on extreme ultraviolet/soft x-ray TG. He/she will collaborate with the staff members of the FERMI team and with external collaborators for carrying out user experiments. He/she will be also involved in the maintenance and upgrade activities of the beamline and experimental end-stations.

Qualifications

A Ph.D. in physics or related disciplines is required. 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. title must be obtained by the end of March 2020.

Proven experience in FEL/synchrotron experiments, EUV/x-ray instrumentation or time-resolved methods would be essential.

Established knowledge of experimental techniques based on non-linear optics or EUV/x-ray scattering would be positively evaluated, especially when combined with time-resolved approaches.

A research background in the fields of transport processes, magnetism or strongly correlated materials (especially dynamics) together with a track record in either FEL or synchrotron experiments would be highly desirable.

Time-management skills and ability to prioritize the jobs activities are expected, together with the capability to interact with staff members and external collaborators, as well as to work in a multi-disciplinary team.

Oral and written communication skills in English are essential. A working knowledge of the Italian language is desirable, but not required.

The deadline for the submission of the application is February 21, 2020.

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.

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We thank all applicants in advance.

For more information, please contact Filippo Bencivenga (email: filippo.bencivenga@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%2F5>

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