



Elettra Sincrotrone Trieste

Technician for the Elettra 2.0 Injection System

Deadline: 6 January 2025

Ref: GA/24/52

Background

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. In order to allow the laboratory to remain competitive in the next 20 years, an entirely new source - Elettra 2.0 - belonging to the new generation of storage rings (DLSR or Diffraction Limited Storage Ring) is being developed. The new source will exhibit a major increase in the brilliance and coherence fraction of the photon beams. The Elettra 2.0 optics is based on our enhanced symmetric six bend achromat structure (S6BA-E) with a 12-fold symmetry and an emittance of 212 pm-rad at 2.4 GeV. The new structure creates also straight sections in the arcs permitting the installation of additional insertion devices, thus increasing the number of beamlines. Existing beamlines will have to be upgraded and new beamlines developed to take full advantage of the characteristics of Elettra 2.0. The new machine is scheduled for commissioning in the second half of 2026. See <http://www.elettra.eu> for more information.

Job description

The successful candidate will be part of the team responsible for the Injection System of the Elettra 2.0 source and will support the team in the activities related to the project implementation. He/she will also assist the team leader in the maintenance of the magnets, pulsed magnets and circuits of the current Elettra storage ring.

Qualifications

A high school diploma with specialization in Electronics or equivalent is required.

The following technical skills would be considered a plus:

- previous experience in activities involving pulsed high power/high voltage instrumentation;
- good knowledge of mechanical tools and associated risks in a laboratory environment;
- knowledge of techniques to measure and troubleshoot equipment at low (≤ 220 Vac) and medium voltage (≤ 20 kV dc);
- basic knowledge of electronic laboratory instrumentation (oscilloscopes, multimeters, RLC bridges etc.);
- programming and reporting.

Good oral and written communication skills in Italian are required. Basic knowledge of English would be considered a plus.

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

General information

The appointment will be a fixed-term contract with an initial duration of 24 months, in accordance with the National Metalworkers Collective Labour Agreement and the Company Agreement, ex. art. 8 of the Decree Law 138/2011, dated 28th March 2024.

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

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L. 19 ottobre 1999 n. 370





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Applications should include full curriculum vitae, a reference letter and contact information (including electronic mail) of at least one reference.

The ranking of eligible candidates resulting from this selection procedure may be used for additional appointments within the following 24 months.

The interviews may be held via video conferencing.

The deadline for the submission of the application is January 6, 2025.

Permanent employees of Elettra Sincrotrone Trieste S.C.p.A. and 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, 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. We thank all applicants in advance.

For more information, please contact Riccardo Tommasini (email: riccardo.tommasini@elettra.eu).

To apply for this position please visit the following link:

<https://www.elettra.trieste.it/it/about/careers/working-withus.html?id=4225>

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