Elettra Sincrotrone Trieste

Insertion Device Technician for Elettra 2.0

Deadline: 30 September 2023
Ref: GA/23/15

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 200 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 Insertion Devices of Elettra 2.0.In particular, he/she will:

. support the Insertion Devices staff in the assembly of the mechanical, magnetic and electrical parts of new devices;

. help with the maintenance of the existing machines and follow purchase and update of the spare parts, particularly of the electric and electronic components.

. contribute to the magnetic measurement activities of the Insertion Devices laboratory:

Qualifications

A three-year university degree in Mechatronics or Electronical Engineering or a high-school diploma from an industrial or professional institute with specialization in Mechatronics, Electronics or a related field is required.

The following technical skills are required:

- basic notions of motion control systems;
- basic knowledge of PLC programming.

Detailed knowledge of PLC based control systems, and of the software standards PLCopenand IEC-61131 will be considered an advantage.

A working knowledge of the Italian language and a basic knowledge of technical English is required.

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

The appointment envisioned is a fixed term contract with an initial duration of 24 months.

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

Applications should include full curriculum vitae.

Elettra Sincrotrone Trieste

The deadline for the submission of the application is September 30, 2023.

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 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 Bruno Diviacco (email: bruno.diviacco@elettra.eu).

To apply for this position please visit the following link:
https://www.elettra.trieste.it/it/about/careers/working-withus.html?id=3181