



Elettra Sincrotrone Trieste

Control System Technician for Elettra 2.0

Deadline: 9 December 2023

Ref: IA/23/40

Background

Elettra Sincrotrone Trieste is an international multidisciplinary research centre operated as a user facility, featuring a 2.0/2.4 GeV, third-generation synchrotron light source (Elettra), a free-electron laser 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. 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

Synchrotron light sources provide photons through beamlines to experimental stations where different types of experiments are performed and data generated. The successful candidate will collaborate with technicians and engineers in the installation and operation of the beamline control systems. Such systems enable remote operation through computers and networks of the large number of mechanical, optical and electronic instruments (e.g., vacuum pumps and valves, motors, actuators, sensors, detectors, etc.) required for the beamline to operate. The work to be performed will be mostly on electronics and cabling and commissioning of the overall control system. Moreover, design and production of simple electrical and electronic equipment, such as cables and junction boxes will be required. The successful candidate will write technical documentation, such as technical specification, drawings, wiring schematics, procedures and test reports.

Qualifications

A high school diploma or a diploma awarded by a professional institute, preferably in the electronic or electrical engineering domain, is required together with previous experience in the following areas:

- design, implementation and test of electric/electronic equipment;
- electronic instrumentation (multimeter, oscilloscope, power supplies, soldering station, ...)
- mechanic/electronic CAD, such as AutoCAD, Catia, Altium;

The following technical skills would be considered a plus:

- previous experience with PLC systems;
- previous experience with motion control systems.

Good knowledge of Microsoft Office Applications is required.

A positive approach to problem-solving and user assistance, 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.

General information

The deadline for the submission of the application is December 9, 2023.

Applications should include a full curriculum vitae, the names and contact information (including electronic mail) of up to

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

S.S. 14 Km 163,5 in Area Science Park
34149 Basovizza, Trieste, Italy
T. +39 040 37581
F. +39 040 938 0903

P.IVA e C.F. IT00697920320
Cap. Soc. € 49.969.980,45 i.v.
PEC: sincrotrone.trieste.elettra@legalmail.it
www.elettra.eu

Iscritta al Registro delle Imprese di Trieste
Società di interesse nazionale
ai sensi dell'art. 10, comma 4,
L. 19 ottobre 1999 n. 370



Elettra Sincrotrone Trieste

three persons who have agreed to provide references.

The appointment will be a fixed term contract of an initial duration of 18 months, renewable upon agreement by the parties. The salary will be commensurate with previous experience and qualifications of the candidate.

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 Roberto Pugliese (email: roberto.pugliese@elettra.eu).

To apply for this position please visit the following link:

<https://www.elettra.trieste.it/it/about/careers/working-withus.html?id=3581>

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

S.S. 14 Km 163,5 in Area Science Park
34149 Basovizza, Trieste, Italy
T. +39 040 37581
F. +39 040 938 0903

P.IVA e C.F. IT00697920320
Cap. Soc. € 49.969.980,45 i.v.
PEC: sincrotrone.trieste.elettra@legalmail.it
www.elettra.eu

Iscritta al Registro delle Imprese di Trieste
Società di interesse nazionale
ai sensi dell'art. 10, comma 4,
L. 19 ottobre 1999 n. 370

