



Elettra Sincrotrone Trieste

# Senior Electrical Engineer/Technician

Deadline: 12 January 2024

Ref: SA/23/43

## 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 selected candidate will collaborate with existing staff in maintaining and managing existing electrical systems and equipment serving the light sources and the facilities of the research center. These include medium/low voltage substations, Power Factor Correctors and Static Var Compensators, low-voltage distribution systems, process plant instrumentation, fire detection systems, special systems, etc. The successful candidate will also participate in the design and implementation of the new electrical systems necessary for the Elettra 2.0 machine upgrade. He/she may be required in certain periods to be on call at night, or on week-ends or during holidays.

He/she will also assist the Electrical Systems Manager in the technical and administrative aspects of the definition and design of the new systems, such as writing technical specifications, process diagrams, layout drawings, quantity surveying, tender documents, reports, and managing contacts and follow-up with suppliers.

## Qualifications

A secondary degree in electric or electrotechnology engineering, or a Master Degree in Electrical Energy and Systems Engineering is required. A minimum of 5 years of proven experience in the field of management and/or maintenance and/or design of electrical systems in research or industrial installations is expected.

Good knowledge of specific software applications for the design of electrical systems is required.

Preference will be given to candidates enrolled in the official Italian Ordine dei Periti Industriali o Ordine degli Ingegneri and with documented skills in Building Information Modeling and qualifications as construction site safety coordinator.

Good oral and written communication skills in English and Italian are essential, as is the ability to use standard word processing and presentation software (Word, Excel, PowerPoint, etc.).

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

## General information

The appointment envisioned is a permanent staff position.

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

Applications should include full curriculum vitae, contact information (including electronic mail) of at least two references.

### 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](mailto:sincrotrone.trieste.elettra@legalmail.it)  
[www.elettra.eu](http://www.elettra.eu)

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The interviews may be held via video conferencing.

The deadline for the submission of the application is January 12, 2024.

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 Salvatore Noe` (email: [salvatore.noe@elettra.eu](mailto:salvatore.noe@elettra.eu)).

To apply for this position please visit the following link:

<https://www.elettra.trieste.it/it/about/careers/working-withus.html?id=3641>

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