



Elettra Sincrotrone Trieste

Electrical engineer

Deadline: 3 December 2020

Ref: SA/20/39

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

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. Additionally, three in-vacuum undulators and two high-field superbends are considered. The new machine is scheduled for commissioning in the second half of 2026.

Job description

The selected candidate will collaborate with existing staff in the maintenance and management of the existing electrical systems and equipment serving the light sources and the facilities of the research center, including medium/low voltage substations, Power Factor Correctors and Static Var Compensators, low-voltage distribution systems, process plant instrumentation, fire detection systems, special systems, etc.), as well as in the design and implementation of the new electrical systems necessary for the Elettra 2.0 machine upgrade. He/she may be required to be on call at night, on week-ends and on holidays.

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

Candidates should be available to be on call, including at night and on holidays.

Qualifications

A Master degree in Electrical Energy and Systems Engineering or university degree in electric or electrotechnology engineering or equivalent qualification is required, together with at least two years of experience in the field of the management and/or maintenance and/or in the design of electrical systems in research or industrial installations. Good knowledge of specific software applications for the design of electrical systems is expected.

Candidates holding a three-year university degree in Industrial Engineering or a Diploma in electrotechnology installations with at least 5 years of experience in the design of electric industrial systems will also be considered.

Preference will be given to candidates enrolled in the official register of Italian professional engineers.

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.

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

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L. 19 ottobre 1999 n. 370

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The appointment envisioned is a fixed term contract with an initial duration of 12 months.

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

Applications should include full curriculum vitae and contact information (including email address) of at least one reference.

Due to the situation related to the COVID-19 virus, the interviews will be performed through video conferencing

The deadline for the submission of the application is December 3, 2020.

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 Dino Zangrando (email: dino.zangrando@elettra.eu).

To apply for this position please visit the following link:

<https://www.elettra.trieste.it/it/about/careers/working-withus.html?ref=SA%2F20%2F39>

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