Electro-Mechanical Technician (TE-MPE-MP-2025-38-GRAE)

Geneva, Switzerland

Full-time

Job Description

Your responsibilities

As an Electro-Mechanical Technician, you will join the TE-MPE-MP section, which oversees the Energy Extraction Systems of the superconducting magnets installed in CERN's LHC accelerator complex, a target area, and several test buildings spread across different sites. We are looking for a recently graduated Electro-Mechanical Technician to reinforce our team.

You will be involved in all stages of the design, construction, and testing of new and upgraded electrical, mechanical, and electronic devices. An engineer will mentor you throughout your placement.

After an initial training period, you will:

- Take part in testing new DC contactor Energy Extraction technology on a dedicated test bench, recording data, following test procedures, and using test equipment such as oscilloscopes and voltmeters.
- Assist in the integration and fitting of DC contactor sub-assemblies into existing 600 A Energy Extraction systems, participate in workflow analysis, help create documentation and procedures, and support testing and debugging of equipment.
- Work in the LHC tunnel on the upgrade of the 600 A Energy Extraction systems at various locations around the accelerator. This will involve dismantling and removing the current electro-mechanical circuit breakers along with all power connections and associated electronics. Towards the end of your assignment, you will take part in the installation and commissioning of the new DC contactor switching technology in the LHC accelerator complex—an exciting opportunity to contribute to the continued operation of the LHC machine for decades to come.

Your profile

Skills

- Conception of electrical & mechanical testing and fault finding
- Conception of electrical drawings
- Interest in installation and commissioning
- Knowledge of electro-mechanical equipment

- Knowledge of power electronics would be an asset
- Proactivity and self-motivation
- Fluency in English, with the willingness to learn French at CERN.

Eligibility criteria:

- You are a national of a CERN Member or Associate Member State.
- **By the application deadline,** you have a **maximum of two years of professional experience since graduation** in Mechanical or Electrical Engineering (or a related field) **and your highest educational qualification is a general secondary education diploma**.
- You have never had a CERN fellow or graduate contract before.
- Applicants with a Bachelor's, Master's or PhD degree are not eligible.

Additional information

Job closing date: **27.03.2025 at 23:59 (midnight) CET.**

Contract duration: 24 months, with a possible extension up to 36 months maximum.

Working hours: 40 hours per week

Target start date: 01-June-2025

This position involves:

- Work in Radiation Areas.
- Interventions in underground installations.

Job reference: TE-MPE-MP-2025-38-GRAE

Field of work: Electrical or Electronics Engineering

Application link: **https://smrtr.io/p-YKK**

What we offer

- A monthly stipend of **4624 Swiss Francs (net of tax)**.
- Coverage by CERN's comprehensive **health scheme** (for yourself, your spouse and children), and membership of the CERN **Pension Fund**.
- Depending on your individual circumstances: installation grant; family, child and infant allowances; payment of travel expenses at the beginning and end of contract.

- **30 days of paid leave per year**.
- On-the-job and formal training at CERN as well as in-house language courses for English and/or French.

About us

At CERN, the European Organization for Nuclear Research, physicists and engineers are probing the fundamental structure of the universe. Using the world's largest and most complex scientific instruments, they study the basic constituents of matter - fundamental particles that are made to collide together at close to the speed of light. The process gives physicists clues about how particles interact, and provides insights into the fundamental laws of nature. Find out more on http://home.cern.

Diversity has been an integral part of CERN's mission since its foundation and is an established value of the Organization. Employing a diverse workforce is central to our success.