



Technical Engineer

Are you an electrical or electromechanical technical engineer, with experience in pulsed power and diverse electromechanical systems? Are you motivated, eager to acquire new skills and knowledge and integrate a team of professionals who will train you in the field of pulsed power systems in the largest particle physics laboratory in the world? Take Part!

You will join the Accelerator Beam Transfer group ([te-dep-abt](#)) which is responsible for the design, development, construction, installation, exploitation and maintenance of injection and extraction related equipment for the whole CERN accelerator complex. Within this group the Fast Pulsed Systems Section is responsible for design, construction, testing, measurement, commissioning and routine operation of fast pulsed magnets (kickers) and their associated high voltage pulse generators and transmission lines.

Functions

As a technical engineer in electricity or electromechanical engineering in the TE-ABT-FPS section you will work in a multi-disciplinary and international team of engineers and technicians. After an initial period of familiarization, you will:

- Participate in the construction or refurbishment, test and commissioning of pulsed power systems (kicker magnets, high voltage pulse generators), initially for the future ELENA machine (Extra Low Energy Antiproton Ring).
- Coordinate logistics and write procedures for the assembly, the installation and the commissioning of complete systems or sub-systems.
- Carry out tests and write test reports.
- Take responsibility for and participate in the surveillance, fault diagnostics and maintenance on operational fast pulsed systems in the whole accelerator complex.
- As a member of a call-out team, ensure the reliable operation of fast pulsed systems across the accelerator complex.

Qualification required

Technical engineer diploma or equivalent qualification in Electricity or Electromechanics engineering.

Experience and competencies

The experience required for this post is:

- Several years' experience in one or several of the following fields: construction, testing and maintenance of electromechanical systems, electromagnetism, high-voltage technology, pulsed power applications.

The technical competencies you will need to take up the post are:

- Knowledge of electrical measurement techniques including digital oscilloscopes.
- Analysis and modelling in power electronics.
- Electro-mechanical equipment design and integration.
- Commissioning, maintenance & operation of electro-mechanical equipment.
- Use of Scientific, Engineering and general office software.

The behavioural competencies you will have to demonstrate are:

- Achieving results.
- Taking responsibility for achieving quality results. Working in a structured and efficient way; able to set priorities and plan tasks with results in mind.
- Communicating effectively: Practising attentive listening and actively promoting mutual understanding.
- Solving Problems: Identifying and analysing the key issues in complex situations.
- Building Relationships: Valuing differences in ideas, perspectives and culture.
- Working in teams: Contributing to promoting a positive atmosphere in the team through an optimistic and constructive attitude; addressing issues.
- Working in the interest of the Organization: Applying organisational rules and processes and actively promoting its safety procedures.
- Demonstrating flexibility: Readily adjusting plans and priorities to respond to changing circumstances.

The language competencies required for this post are:

- English or French: Good knowledge of either English or French. Basic knowledge of the other language or an undertaking to acquire it rapidly.

[APPLY ONLINE!](#)

CERN – TAKE PART!