

Technician / Technical Engineer (accelerator operation)

Role summary:

Your role would be Technician / Technical Engineer (accelerator operation) in the Beams Department (BE), Operations Group (OP), SPS Section. The BE Operations Group is responsible for the operation of the entire CERN accelerator complex, which currently consists of two linacs, five synchrotrons and four experimental areas. In addition to the varied proton, antiproton and heavy ion experimental programs, the complex also supplies protons and heavy ions to the Large Hadron Collider (LHC) and the Operations Group is responsible for LHC operation. The group is also responsible for the operation of CERN's technical infrastructure.

Introduction

The SPS is the final stage of the LHC injector chain. It is operated 7 d/24 h for most of the year. Besides delivering beam to the LHC, the SPS delivers beams to experimental zones in the North Area and the HiRadMat facility. The SPS provides also coasting beams for UA9 and the LHC test beds. Further details can be found at <https://espace.cern.ch/be-dep/OP/SPS/default.aspx>

As a member of the SPS operations team, you will

- Be part of a 24-7 shift crew which runs CERN's accelerator complex;
- Be part of a multinational team with a range of skills and expertise;
- Have the opportunity to broaden your knowledge in new areas; and
- Be offered specific training and support for your professional development.

Functions

As a member of a team of accelerator operators you will:

- Oversee the operation of the SPS on a shift basis, ensuring the application of safety rules during shift hours.
- Work closely with the accelerator physicists and set up and optimise the accelerator for its various physics users and for machine studies.

It is envisaged that you will maintain strong links with your group during your detachment.

Experience and Competencies

The experience required for this post is:

- Initial work experience in a technical or scientific environment.
- Experience in the field of electronics and accelerator hardware and/or operation would be an advantage (e.g. vacuum equipment, high-voltage equipment, PLCs, work in controlled radiation areas).

The technical competencies that you will potentially develop in this post are:

- Accelerator Operation
- Accelerator performance analysis & optimization
- Operation of a wide range of technical systems spanning vacuum, power converters, RF, beam instrumentation etc.

The behavioural competencies required for this post are:

- Solving Problems: finding the information needed to solve problems; making objective judgments based on all the facts available.
- Managing Self: working well autonomously; taking on activities and tasks without prompting.
- Communicating: ensuring that information, procedures and decisions are appropriately documented.
- Working in Teams: working well in groups and readily fits into a team; participating fully and taking an active role in team activities.
- Demonstrating Flexibility: adapting quickly and resourcefully to shifting priorities and requirements.

The language competencies required for this post are:

- French and English oral comprehension