Mechanical Technician

Are you a skilled mechanic, experienced in machining, assembly and testing of complex mechanical components? Does the idea of participating in the development of mechanical detector components for the LHC, the largest particle physics experiment in the world, and providing support to physics experiments attract you? Take part!

The Detector Technology group in the Physics Department (PH-DT) participates in the development, construction and operation of particle detectors for experiments at CERN. This comprises LHC detector consolidation and upgrade projects as well as non-LHC activities. We operate a number of mechanical workshops, in which we develop prototype components and perform small volume series production. We deal with a large spectrum of materials, from traditional metals and polymers to composites.

Functions

As mechanical technician, you will be assigned to the Physics Department DT Group and work in a team developing mechanical detector components and providing technical support to physics experiments. Your functions will include:

- Fabricating precise mechanical components using conventional and computer controlled machine tools.
- Performing quality control of components.
- Carrying out qualification tests of components and devices using mechanical, electrical and optical instruments.
- Ensuring the assembly, integration and installation of particle detectors.
- Developing associated tooling and assembly procedures.
- Contributing to the procurement of mechanical components, materials and tools as well as to the documentation of the processes.

Qualification required

Higher technical diploma, or equivalent qualification in mechanics.

Experience and competencies

The experience required for this post is:

- At least 5 years' practical experience in mechanics with knowledge in machining, assembly and test of precision and complex mechanical structures.
- Familiarity with Computer Numerical Controlled (CNC lathe and milling machines) and the use of measurement devices (measurement arms, 3D gantry) would be an advantage.
- Basic knowledge of CAD software is a major asset.
- Experience in the fabrication and testing of particle detector components or production of composite structures (GFR, CFR materials) would be a distinct advantage.

The technical competencies required for this post are:

- Use of numerical control & conventional machine tools.
- Precision assembly and construction.
- Perform conventional dimensional metrology on marble.
- 3D & 2D technical drawing.

The behavioral competencies you will need to demonstrate for this post are:

- Achieving Results: Delivering high quality work on time and fulfilling expectations.
- Working in teams: Building and maintaining constructive and effective work relationships.
- Demonstrating Flexibility: Actively participating in the implementation of new processes and technologies.
- Managing Self: Taking initiative beyond regular tasks and making things happen.

The language competencies required are:

- Good knowledge of English or French; a working knowledge of the other language is desirable or must be acquired rapidly.

APPLY ONLINE!

CERN – TAKE PART!