

Job Title 1

Mechanical Engineer for the LHC Beam Vacuum

Introduction

To increase the luminosity and maximize the probability of discoveries, the LHC is and will be operated with high intensity proton bunches, up to $1.6E+11$ protons per bunch. These operating conditions require a perfect electrical continuity of the vacuum beampipes and interconnecting bellows to allow the circulation of the beam image current flowing in opposite direction.

Functions

In collaboration with CERN experts, the candidate:

- Will take responsibility for reviewing the mechanical engineering of the installed configurations of vacuum bellows equipped with RF fingers.
- Will follow and take part to the RF measurements were applicable.
- Will contributes to the re-design and procurement follow-up of the new RF inserts for the bellows.
- Will participate to the installation and re-commissioning of the beam vacuum sectors.

Qualification required

Mechanical Engineer or equivalent

Experience and competencies

Mechanical Engineer with knowledge on materials and assembly techniques: welding and brazing processes.

Experience with procurement follow-up will be an advantage.

Language competencies

Good knowledge of English or French; working knowledge of the other language.

Job location

The selected candidate will be working at CERN during the entire period of his (her) contract, attached to the Technology Department (TE), in the Vacuum, Surfaces and Coatings (VSC) Group.