

Call for contribution of expertise

CERN invites collaborating institutes and universities to contribute the expertise of their qualified employees to the activity described below.

Start date: April 2018

Duration: One year, possible extension to a maximum of up to three years.

Project/Activity: Production engineer

To extend its discovery potential, the LHC will need a major upgrade to increase its luminosity (rate of collisions) by a factor of 10 beyond its design value. Part of the upgrade are the manufacturing and/or in-situ modifications of heavy steel shielding structures. The HL-LHC WP8 is the work package that will be in charge of the design, production, and installation of the equipment required to perform these tasks.

Detailed description of Activity:

You will join the WP8 engineering team in the EN-EA group to:

- Participate in the final design modifications performed in shielding structures of LHC experiments, focusing on the needs in terms of access and compatibility with general and technical services.
- Follow-up and take responsibility in the worksite preparation and installation schedule. Ensure the safety of related activities, identifying possible issues at very early stage and proposing pro-active solutions considering possibly conflicting requirements from different system owners.
- Identify possible cost and time saving or intervention improvement solutions and prepare installation lay-outs that take into account the installation sequence optimized for schedule and costs
- Follow up the manufacturing of the main elements, interfacing between the experiments groups and the different LHC machine groups when necessary.

Profile: Industrial engineer (Mechanical/Quality). In-situ works/production oriented.

Experience with machining/welding and follow up of manufacturing of heavy metal with tight tolerances and/or installation in worksites (nuclear or power plant, chemical, industrial assembly chain) or civil engineering construction are assets.

Specific details: Spoken and good proficiency in written English is required: French is an asset and the willingness to learn French is required. Good working knowledge of CATIA and MS Project would be an asset.

Status at CERN: Associated Member of the Personnel (Project Associate).

Conditions in accordance with CERN's Staff Rules and Regulations and Administrative Circular No. 11. Subsistence allowance is payable by CERN to cover the additional cost arising from the individual's (and, as applicable, their family's) stay in the local area while

performing activities at CERN.

Contact person: Isabel Bejar Alonso

Reference: 2017_Q4_038_WP08_Production
Engineer