

## Call for contribution of expertise

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

*Start date:* asap

*Duration:* One year, possible extension to a maximum of up to 3 years.

*Project/Activity:* Mechanical Engineer

### *Detailed description of Activity:*

The expert will join the TE-VSC group. the work will focus on the design, production and reception of the vacuum system related to the collimator zones for HL-LHC IP1 and IP5 to be installed during LS3.

The main tasks will be the following:

- Design of the remote handling tooling for vacuum connections in the collimator zones of IP1 & IP5 of LHC.
- Organize the fabrication of the vacuum remote handling tooling.
- Define and participate to the qualification tests of the components.
- Follow the test-stand installation.
- Define, produce and keep up to date the quality assurance documentation for these components

*Profile:* Bachelor/Master degree in mechanical engineering. Experience using CATIA is an asset.

*Specific details:* Candidates will be expected to possess a good working knowledge of either English or French. Documentation shall be produced in English.

*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.

*Option:* Collaborating institutes and universities can propose to support the activity of the qualified employees participating in this "Call for contribution of expertise" with students or other employees. Their status and Subsistence allowance when applicable will be adapted to their relation with their institutions

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*Reference:* 2019\_Q2\_018