

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: 01/2021

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

Project/Activity: Vacuum engineering of high radioactive areas

Detailed description of Activity:

- Detailed design of service lines (pumping lines, pneumatics, and cabling) between the GIS and the VAX modules.
- Tests and validation of remote handling mechanisms, quick connectors (cabling and pneumatics) and patch panels of VAX modules.
- Design of Q1-TAXS vacuum modules.
- Functional characterization of vacuum equipment, at the level of component and/or assembly, in the scope of R2M project.
- Development and tests of VAT angle valve driven by radiation hard pneumatic motor with ceramic blades.

Profile: Master degree in industrial/mechanical engineering or equivalent technical experience. Experience with the design of high precision electro-mechanical assemblies, joining techniques (welding, brazing) and project management for mechanical installations are assets. Specific knowledge of vacuum technology is also an asset.

Specific details: Valid driving license. Good working knowledge of either English or French. 3D models shall be produced in CATIA. Team-working attitude. Practical hands-on work.

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 relationship with their institutions

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