

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: Asap

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

Project/Activity: Development of the HL-LHC Nb₃Sn quadrupole magnet MQXFB

Detailed description of Activity:

- Follow-up the fabrication the 7.5 m long Nb₃Sn coils for MQXF, reviewing the fabrication procedures and supervising the reception of the coil parts
- Participate to the design of the magnet assembly tooling and follow-up its procurement
- Follow-up the procurement of support structure components
- Participate to the assembly of the first mechanical model with aluminium dummy coils and of the first prototype.
- Review assembly and pre-loading procedures
- Contribute the mechanical analysis of the magnet with finite element models and strain gauge measurements.

Profile: Mechanical/Electrical/Aeronautical engineer. Experience with the design, fabrication and analysis of mechanical and electrical devices.

Specific details: Good level of English, French is 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.

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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