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: 01.05.2018	*Duration:* onw years, possible extension to a maximum of up to three years.

Project/Activity:

Physicist or Material scientist for the development and implementation of carbon coatings and in the LHC triplets geometry for LS2

Detailed description of Activity:

You will join the team in charge of the coating of the LHC triplet section of LHC during LS2:

- Optimize in laboratory runs the cathode design and coating parameters for the various geometries of magnet beam-screens.
- Perform the coating on spare magnets as a test and training for the real case.
- Organise the infrastructure for the coating operations in situ in the LHC tunnel.
- Perform the coating process in situ together with a team of technicians and technical engineers and lead the team in one of the sites underground when necessary.
- Follow-up the quality control and ensure that the work is correctly documented.

Profile: PhD in physics or material science. Proven experience with ultra-high-vacuum technology. Experience in PVD coatings or cold plasma techniques.

Specific details: Candidates will be expected to possess a good working knowledge of either English or French.

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

Contact person: Isabel Bejar Alonso	*Reference:* 2017_Q3_016_WP12_Coating