

## 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:* Metrologist

### *Detailed description of Activity:*

As a metrology Technician or Engineer in the MM Section, after an initial period of familiarisation, you will:

- In collaboration with the design Office, on the basis of the drawings of parts they provide, evaluate and select the appropriate measurement methods and the required tools in view of performing final measurements and quality checks;
- Upon receipt of the parts, perform quality control and final dimensional checking of parts belonging to existing CERN accelerators and experiments or new components manufactured on- and off-site for the LHC and its experiments, and actual and future projects;
- Perform quality control and high-precision metrology, using conventional tooling for dimensional certification, numerically-controlled 3D measuring machines and ultra-precise non-contact 2D and 3D laser operated measuring machines. "Transportable" measuring apparatus (poly-articulated measuring arm and conventional portable measuring tooling) may also be used as well as computed tomography techniques;
- Produce relevant documentation of the measured parts and results for subsequent presentation to the users;
- Collaborate with sub-contractors on the acceptance, intermediate quality control and dimensional checking of components during production. This will involve occasional travel in Europe;

Keep abreast of developments in international standards on quality control

*Profile:* Bachelor degree or Engineer diploma in Mechanical engineering or equivalent. Specific knowledge of the ISO standards and GD&T (Geometric Dimensioning and Tolerancing) would be an asset.

*Specific details:* Specific knowledge of CMM (coordinate measuring machine). 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

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*Reference:* 2018\_Q4\_034