

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: Two years with a 6-month probation and a possible extension of one year.

Project/Activity: Embedded software development for power converter control systems

Detailed description of Activity:

- Become familiar with the embedded Function Generator/Controller platform, used for the control of power converters.
- Maintain and upgrade the FGC embedded software written in C.
- Refactor the so-called MCU BOOT application. This implies gathering and documenting requirements, developing the software accordingly using a well-defined coding standard, and writing test scripts.
- Participate in other development activities in the section. This might imply writing scripts in python and maintaining the continuous integration service.

Profile: Masters degree in software engineering or similar. Preferably experience in C/C++, embedded systems and Linux. Knowledge of modern collaborative software development techniques using a version control tool.

Specific details: The work related to this collaboration will be most of the time carried out in an office environment. Access to the TE-EPC-CCS software laboratory will be required to test SW prototypes. Behavioural skills: flexibility, organizational, teamwork. Good working knowledge of either English or French and an ability to write documentation 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_Q1_EPC_002