

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: Design and development of the CERN gas and cooling plants automation systems

Detailed description of Activity:

As a member of the Industrial Control and Safety Systems group, you will:

- Gather the requirements of the control systems and compiling all the relevant documents (e.g. specifications, functional analysis, etc).
- Design control systems for the gas and cooling industrial installations. In some cases, the concerned installations are new, but others already exist and the control system must be either consolidated or completely renovated.
- Program PLCs, configure local operation panels and the SCADA (Supervisory Control and Data Acquisition) layers of the control systems.
- Commission by managing the tests offline and in the field.

Profile: Bachelor/Master in Industrial Engineering or automation.

Strong communication skills and a genuine interest in working with people. Will be an asset to have experience/knowledge on the following areas:

- Defining and managing requirements, configuration and programming PLCs and fieldbus systems.
- Programming/Software development: IEC-61131-3 standard, SIEMENS Step7 and/or Schneider Unity.
- Configuration, programming and using Supervisory Control And Data Acquisition (SCADA) systems.
- Testing procedures (Factory and Site Acceptance Tests).

Specific details:

Good working knowledge of either English or French is required.

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_Q3_028_Gas