

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: 1/1/2019

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

Project/Activity: Software developer in CAD and PLM domain

Detailed description of Activity:

The CERN CAD service provides mechanical CAD software and corresponding data management system plus dedicated tools for the CERN design and engineering community. CERN's official CAD tool is CATIA V5 with Enovia SmarTeam as the Product Data Management system (PDM). The developer will:

- Participate in technical applications design and development including porting or creating new apps for a new PLM system. Typical application areas include: CAD Data Management, CAD and viewer automation, integration with other systems, tools to enhance data exchange in worldwide design collaborations.
- Assist CAD and PLM experts to formulate and implement applications requirements specifications, develop high level data and process model, design specifications, and test- and user- documentation.
- Design, develop and maintain using object oriented, web-based, and RDBMS technology development languages and techniques include .NET, Java, SQL, web technologies. It also includes using the languages of the application programming interfaces (APIs) of the commercial tools.
- Perform software code analysis, programming, software review, testing, delivery, and support.
- Learn and understand the use cases related to the developments, in particular the context of the mechanical CAD software and data management system at CERN.

Profile: Master in Software Engineering. Working knowledge of .NET (or similar like Java); web technologies (such as ASP, HTML5, CSS, JavaScript). Knowledge and experience of UX design as well as relational databases and SQL would be a strong asset. Expected to foremost work with VB .NET or Java Enterprise depending on the application. Knowledge of 3D CAD and data management is a plus.

Specific details: Good level of English or French and willingness to learn the other language.

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 are encouraged 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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