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**VALID**

**REFERENCE : NOT REQUIRED**

## HL-LHC Resources request

**Date:** 2017-01-27

**Project/Activity:** WP5

**Title Position/Task:** CAD / PLM application engineer

### **Description Project:**

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 the Enovia SmarTeam as the Product Data Management system (PDM). CATIA V5 is a powerful 3D CAD tool that in addition to mechanical design, provides a large number of trade-specific software modules such as kinematic, piping, sheet metal design and digital mock-up.

### **Task:**

You will join the CAD support team:

In addition to the daily support tasks, this job would also include studying specific needs and propose CATIA methodologies and eventually customizations to deploy in production. This requires extensive use of CATIA and its local design data management system SmarTeam. The job will also include participation in the development activities of CERN specific tools and customizations, such as writing technical specifications, testing, writing user guides.

Moreover, both CATIA V5 and SmarTeam will be superseded in the near future and new tools and methods will need to be put in place by the team in the coming years.

This is a challenging opportunity to gain experience in how to use, support and adapt methodologies of a 3D CAD tool with its data manager in a large international collaboration. It's also expected the selected candidate will learn about support methodology and will have the chance of seeing the specific needs of many disciplines of mechanical engineering.

**Profile:** Master in mechanical or aeronautical engineering

### **Experience:**

Basic knowledge of 3D CAD and mechanical engineering is therefore a must as well as practical experience of using CATIA. Knowledge of data management is a plus.

Experience in CAD design; support methodology; data management; software testing is an asset

**Specific details:** Candidates will be expected to possess a good working knowledge of either English or French and is expected to learn both languages.