HL-LHC Resources request

Date: 2016-09-26	*Title Position/Task:* CAD Support Engineer
Project/Activity: WP1	

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

Both CATIA V5 and SmarTeam will be superseded in the near future and new tools and architecture will need to be put in place by the team in the coming years.

Task:

The selected candidate will join the team of CAD and PLM experts in the CERN CAD Service to:

- Analyze needs and requirements for the CAD and PLM tools managed by the section and create implementation specifications for specific solutions. This includes working directly with the clients.
- Adapt existing and develop new features around the CAD and PLM tools, such as integration with enterprise engineering data management system, CAD drawing title block editor etc.
- Adapt existing and develop new tools related to design data (for example exchange and visualization), as well as tools for support and system administration.
- Participate in testing, code reviews and bug fixing as well as preparation of documentation.

Profile: Software Engineer

Experience:

Experience in software design and development. Experience with CAD tools could be a plus.

Specific details: Good working knowledge of .NET and Java Enterprise; expected to foremost work with VB .NET. Knowledge of web technologies (HTML5, CSS, JavaScript) as well as knowledge of relational databases and SQL. Interest to 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.

Good level of English and is expected to learn French if not already acquired.

Requester: P.O. Friman	*Approved by:* K. Foraz, L. Tavian	*Budget code:* #####
Visa Budget Officer: B. Delille		*Date:* 2016-09-26
Distribution List: UPM, IST		

Proposal:

To be filled by the University with reference to list of candidates or team work proposal