HL-LHC Resources request

Date: 26/09/2016

Project/Activity: WP17.7

Title Position/Task: Mechanical Engineer for implementation of transport and handling solutions.

Description Project:

To extend its discovery potential, the LHC will need a major upgrade to increase its luminosity (rate of collisions) by a factor of 10 beyond its design value. The HL-LHC is the project that will develop the new technologies and be in charge of the design, production, installation and commissioning of the equipment required to reach this objective.

Task:

You will join the team in charge of transport operations (EN-HE-HH section) to:

- Design and implement transport and handling solutions to install equipment's in surface and underground facilities.
- Conduct Computed Aided Design (CAD) simulation of transport scenarii.
- Conduct feasibility studies for equipment's installation.
- Design new tooling and special equipment's (e.g.: lifting beam, supports, new transport equipment's, etc…) including documentation for certification.

Profile: Mechanical Engineer specialized in the field of structure and stress (FEM) calculations

Experience:
A first experience in a design office in the field of mechanical or structure engineering, with an industrial or technical background.

Specific details:
Candidates will be expected to possess a good working knowledge of either English or French.
Knowledge of quality standards, design procedures and management of technical documentation.
Documentation shall be produced in English.
Structure and stress (FEM) calculations are run on Ansys.
CAD works are done on CATIA.

Requester: Caterina Bertone	**Approved by:** Ingo Ruehl, L. Tavian	**Budget code:** 54362
Visa Budget Officer: B. Delille		**Date:** 2016-10-03
Distribution List: UPM, IST		

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