



EDMS NO.  
**1771827**

REV.  
**1.0**

VALIDITY  
**VALID**

**REFERENCE : NOT REQUIRED**

## HL-LHC Resources request

**Date:** 2017-03-20

**Project/Activity:** WP12

**Title Position/Task:** Mechanical Engineer-Beam Screen

**Description Project:**

Design of the HL-LHC beam screen

**Task:**

The candidate will carry out magnetic thermal mechanical analyses of the HL-LHC beam screens and of the representative prototypes. He will in particular analyse the behaviour during a magnet quench. He will prepare and participate to the characterisation and validation thermal and mechanical tests. He will analyse the test results and cross check them with the estimations. He will study the influence of the different design modifications on the behaviour of the beam screen.

**Profile:** Mechanical engineer (structural analysis)

**Experience:**

Magnetic thermal mechanical simulations in cryogenic environment.

**Specific details:** Candidates will be expected to possess a good working knowledge of English and French.  
Use of CATIA and Comsol

**Requester:** TE-VSC

**Starting date:** July 2017