Sample Project: Low carbon steel mechanical and magnetic characterization

Code	TE5952
Programme	FCT
Department	TE
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Title

Low carbon steel mechanical and magnetic characterization

Description

In the Magnet, Superconductors and Cryostats Group (MSC), the Large Magnet Facility Section (LMF) is in charge of the engineering, manufacturing and maintenance of superconducting accelerator magnets, including superconducting coils, busses, electrical joints and interconnects. In the frame of the LMF section activity, the selected candidate will participate to the characterization of the low carbon steel which will be used for the production of the HL-LHC superconducting magnet yokes. The characterization is intended on a mechanical and magnetic point of view.

Skills

Material Science: Magnetic measurement of materials, Mechanical testing of materials. Mechanical Engineering: Structural mechanics and machine development <p>
 Knowledge in mechanical engineering, material science, measurement and testing technologie. Good working knowledge of English or French. Demonstrated ability to write technical reports and to work in teams.</p> <p>
 Scientific communication and Education.</p>

Disciplines

Mechanical Engineering, Material Science