



Senior Physicist / Magnet Engineer - Full Time

Scientific Magnetics is a leading manufacturer of superconducting magnets and helium-free cryogenic systems, based in Abingdon, Oxfordshire. In line with our exciting expansion plans, we are hiring across a number of business-critical functions.

Key Responsibilities

- ^sM Modelling of magnetic (mainly superconducting) systems using industry standard tools including OPERA, COMSOL Multiphysics and other analytical tools.
- ^sM Design and development of cryogenic and cryogen-free superconducting magnet systems.
- ^sM Generation of line-up information for the drawing office; checking and approving of detailed drawings.
- ^sM Generation of working instructions and procedures in accordance with the Company's ISO9001 Quality Assurance policy.
- ^sM Project management of projects and parts of major projects.
- ^sM Specifying and conducting tests in the workshop; recording and interpreting results in accordance with quality and health & safety policies.
- ^sM Liaison with partners and suppliers in all parts of the world as required.
- ^sM Generation of technical reports for internal use and external publication.

Qualifications / Experience

- ^sM Degree qualified in physics or a physical science course, possibly to PhD level.
- ^sM Expertise and knowledge of a subset of the following:
 - Superconducting magnet design
 - OPERA 2D / 3D - Static magnetic and transient analysis, COMSOL Multiphysics simulation software package
 - Superconducting joint, quench protection and Persistent switch design
 - Impregnation techniques for magnet designs
 - Cryogenic vessel heat load calculations

Personal Attributes

- ^sM High standard of spoken and written English. Good interpersonal communicator
- ^sM Effective problem solver
- ^sM Ability to work efficiently as part of a fast-paced team

If you're interested please email your CV to jobs@scientificmagnetics.co.uk

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