MECHANICAL DESIGN ENGINEER

UCL Department/Division  Department of Space & Climate Physics

Grade  7

Hours  Full Time

Salary  £31,076 to £38,183 per annum

Closing Date: 23rd October 2016

Duties and Responsibilities

Applications are invited for the post of Mechanical Design Engineer in the mechanical and thermal engineering group at MSSL to support the Laboratory’s space science instrumentation programme.

The post is funded for two years in the first instance.

Key Requirements

- Higher national certificate in mechanical engineering or equivalent training
- Good understanding of workshop practices and material capabilities (completion of a recognised apprenticeship would be seen as an advantage)

Further details

A job description and person specification can be accessed at the bottom of this page.

Job Title

Mechanical Design Engineer

Department

Department of Space & Climate Physics, Mullard Space Science Laboratory, University College London

To apply for this post please go to: http://www.ucl.ac.uk/hr/jobs/ and search on 1586976.
Summary of Job Function

The post holder will work within project teams to develop and analyse instruments or subsystems of instruments as required for the laboratory’s space projects. The work carried out will support either instrument development during the study phase of space programmes, fulfil instrument design requirements during the build phase or support mechanical test programmes.

Main Duties

- Work within project teams to gain an understanding of space instrument mechanical interfaces and design requirements
- Assess feasibility of proposed instrument designs by evaluating concepts
- Support instrument testing
- 3D CAD design of the instrument assembly and related 2D drawings
- Manage the interface control document which defines the interface with the spacecraft following the requirements as outlined by the main contractor
- Support instrument mechanical engineer, thermal engineer and project manager
- Work with other engineering disciplines within the lab and within a project to meet the requirements

Knowledge

Essential: Experience in creating and maintaining CAD models and files
Essential: Be able to create and interpret engineering drawings

Qualifications

Essential: Higher national certificate in Mechanical Engineering Design or equivalent experience

Skills

Essential: Being able to create CAD models and evaluate design options to support ongoing design work, as well as being able to advice engineers about ways to improve designs where required
Essential: Good written and oral communication skills (working language is English)
Essential: Proficiency with common computer operating systems and the use of MS Office applications
Desirable: Proficient in the use of CATIA software, ideally several years of experience

Aptitude

Essential: Good interpersonal abilities and proven capability to work collaboratively
Essential: A positive outlook and a “can do” attitude
Desirable: Proven record of ability to manage time and work to deadlines

Previous Experience

Essential: Mechanical design experience and proven track record of manufactured designs

Desirable: 5 years of experience working in the aerospace industry
Mechanical Design Engineer

The Mullard Space Science Laboratory, of University College London, is the UK’s largest university-based space research group with a long and impressive record in space research and engineering. The laboratory, which is set in pleasant grounds in the Surrey countryside, includes internationally renowned astrophysics and space instrumentation groups, supported by dedicated electronic, mechanical engineering and software teams.

The Mechanical Thermal Engineering Group currently has a vacancy for a Mechanical Design Engineer. The post is for 2 years initially, but has the potential to be extended. The candidate should have an HNC or equivalent in Mechanical Engineering with 3D design and draughting experience. Previous experience with light weight structures, or aerospace industry would be an advantage.

The successful person will be working within a small team developing one-off designs for instruments to be used in space. They will be working predominantly with Dassault Systems Catia V5.19 software on a PC.

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The post-holder will report to the Head of the Mechanical Thermal Engineering Group. Salary will be in the range £30,738 to £37,768 p.a. depending on experience. The working week is 36.5 hours, Monday to Friday beginning at 08:30. The annual leave entitlement is 27 days in addition to bank holidays and 6 other days when UCL is closed. Owing to the remote location of the laboratory own transport is essential.