



## Employment

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### SOFTWARE DEVELOPMENT OFFICER

#### SPACE AND ATMOSPHERIC PHYSICS GROUP DEPARTMENT OF PHYSICS

'Imperial College is ranked in the top ten universities of the world, according to the 2006 Times Higher Education Supplement league tables.'

Imperial College is the Project Scientist institute for the UK Cluster Science Centre of the European Space Agency's Cluster satellite mission to study the spatial and temporal structure of key regions of the Earth's magnetosphere. Amongst other activities, the Cluster Science Centre has developed a sophisticated data analysis and visualisation tool, QSAS, that is currently in widespread international use. (see [www.space-plasma.qmul.ac.uk/QSAS](http://www.space-plasma.qmul.ac.uk/QSAS)) QSAS will be employed for the recently launched NASA mission THEMIS, and has been selected for use by the Magnetospheric Multi-scale Mission (MMS). Although QSAS was written to be multi-mission in its capabilities, and has reached a high level of maturity, there are new challenges brought about by increases in data resolution and complexity. Additionally, space plasma studies usually entail the development and use of new, tailored analysis algorithms and accompanying visualisation paradigms.

The successful applicant will join the QSAS team at Imperial and participate in the continued and growing success of the software through a blend of basic maintenance and software support through to the design and implementation of novel and powerful analysis capabilities. Other software and data format designs are supported by Cluster Science Centre staff. The post includes both software and science innovation aspects in a balance that depends on the skills, background, and interests of the successful candidate.

You will preferably have an undergraduate degree (or higher) in physics, mathematics, computer science, or other numerate discipline. You will have experience in software design in a procedural language (preferably C++) within a Unix-like environment. Experience in space/magnetospheric physics and/or time series data analysis would be an advantage. You will need to be able to work as a member of a team, to communicate effectively to colleagues and the wider user community both written and orally, and to organise your own independent work.

The post is available on a full-time or part-time basis (at least 21 hours per week) from 1 June 2007, for two years in the first instance with a possibility for extension, subject to funding. The Salary will be in the range £27,980 - £34,750 per annum (pro-rata if applicable), depending on qualifications.

A job description and an application form can be obtained from the following links:

- [Job Description](#)
- [Application form](#)

Alternatively, please contact Ms Anne Thomson, Email: [space.sec@imperial.ac.uk](mailto:space.sec@imperial.ac.uk). Completed application forms including a CV, list of publications and the names of two referees should be sent to Ms Anne Thomson, Space and Atmospheric Physics Group, Blackett Laboratory, Prince Consort Road, Imperial College London, SW7 2AZ, UK.

**Closing date: 27 April 2007**

**Valuing diversity and committed to equality of opportunity**

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see <http://www3.imperial.ac.uk/employment/technical/ns200750kc>

Contact at EGU: Steve Schwartz, Email: [s.schwartz@imperial.ac.uk](mailto:s.schwartz@imperial.ac.uk)