

**Laboratoire de Physique des Plasmas**

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**Laboratorium voor Plasmafysica**

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The Laboratory for Plasma Physics of the Royal Military Academy (**LPP/ERM-KMS**)  
has a vacancy for the position of

## ICRF EXPERT

**Work environment:**

The LPP/ERM-KMS develops RF heating systems in the Ion Cyclotron Resonance Frequency (ICRF) range for the international thermonuclear fusion test facilities JET and ITER. A first such system is presently being commissioned at JET in Culham near Oxford (Great Britain) and was designed to couple 8MW of RF power (30-55 MHz) to JET plasmas for 10s pulses. The design of a similar system for ITER in Cadarache (France) at the level of 20 MW cw is in progress.

The LPP-ERM/KMS, research unit of the EURATOM-Belgian State Association, is leading the JET project and will be part of the European consortium of fusion research centres that will design, tender and commission the ITER ICRF system.

**Major duties/Responsibilities:**

The successful candidate will be responsible for:  
the implementation of ICRF physics and the development of the ITER ICRF system. He / she will model the electrical properties of the system, develop matching algorithms and strategies, develop diagnostics for the system and will work in a team of engineers to produce a final detailed design.

**Competencies/ Qualifications:**

- PhD in physics or engineering in the field of the job in offer, or in other fields when supplemented by working experience in the areas of relevance for this job description.
- Ability to work in multinational / multicultural teams and to move or to regularly spend multi-week periods abroad.
- Ability to communicate clearly and write technical reports in English.
- The knowledge of Dutch/French would be an asset.

Your contract will start in January 2008 or earlier for a period of 2 years, with a prospect for permanent employment. You are expected to work in Brussels. Your salary will be that of a Belgian civil servant.

Contact address: Interested candidates are invited to send their curriculum vitae with a letter of motivation to the above address, care of Prof. M. Van Schoor, not later than September 14, 2007.