

Laboratoire de Physique des Plasmas

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

SYSTEM DEVELOPMENT ENGINEER

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 a plasma for 10s. 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 system.

Major duties/Responsibilities:

The successful candidate will be responsible within the ITER task for:

- the mechanical design and development of components of the antenna and matching system;
- the technical specifications of these components and their procurement;
- the testing of the components.

Competencies/ Qualifications:

- University degree in electro-mechanical engineer (Master or DipIng).
- At least ten years of post graduation experience in system development.
- Knowledge of metal forming techniques.
- Knowledge of mechanical design to codes and standards such as ASME.
- Familiarity with electromechanical and thermal effects on structural design.
- Familiarity with quality assurance.
- Familiarity with CATIA-5 would be a strong asset.
- Ability to work in multinational / multicultural teams and willingness to regularly spend multi-week periods abroad is important.
- 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. You are expected to move to the area of Culham, UK, for a period of at least two years and will be entitled to a secondment allowance.

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