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JOB DETAIL

Ref. IO1145 - 9/29/2011

Vacuum Design and Construction Officer CEP-086**Main job** Vacuum technologies**Department** DIP/Directorate for Central Engineering & Plant**Division** CEP / Fuel Cycle Engineering Division**Section** CEP / FCE / Vacuum Section**Job Family** Project engineering**Application Deadline** 31/Oct/2011**Grade** P3**Direct employment** Not required

Purpose To develop the design and integration of the ITER vacuum pumping and leak detection systems which are part of one of the largest vacuum systems ever to be built;
To participate in the definition and monitoring of procurement arrangements for vacuum systems;
To plan, prepare and manage the installation and commissioning of vacuum-related hardware.

Main duties / Responsibilities

- Designs and integrates high integrity vacuum pumping and leak detection and localisation systems in accordance with relevant codes and standards including: mechanical engineering and control and instrumentation (C&I) engineering;
- Establishes and manages vacuum design and development work in the ITER Domestic Agencies;
- Initiates and supervises vacuum research and development required to complete the design of vacuum systems;
- Writes specifications, for the procurement of vacuum pumps and vacuum related components under the responsibility of the Vacuum Section;
- Provides support to Domestic Agencies and other ITER Sections achieving vacuum requirements as defined in the ITER Vacuum Handbook;
- Develops vacuum interface documentation and participates in the design review process of ITER systems with a vacuum interface;
- Maintains a strong commitment to the implementation and perpetuation of the ITER Safety Program, values and ethics.

Measures of effectiveness

- Successfully implements guidelines and direction received from the Section Leader, and the ITER management;
- Successfully interfaces between ITER Divisions and Domestic Agencies and maintains good communication;
- Successfully provides engineering support for the project;
- Successfully completes the tasks assigned under Major Duties / Responsibilities above.

Level of study Bachelor or Master/Engineer Degree**Diploma** Engineering or another relevant discipline**Level of experience** At least 10 years

Technical experience

- At least 10 years' experience with a minimum of 5 years covering large complex engineering projects, ideally in the field of high energy physics, fusion or fission;
- Good knowledge of ultra-high vacuum, vacuum pumping, gas dynamics and cryogenics;
- Significant experience in mechanical design and working with draftsmen to develop designs on Computer Aided Design (CAD) systems;
- Good knowledge of various vacuum sealing techniques, including weld design and technology;
- Experience in vacuum instrumentation and control techniques would be advantageous;
- Experience with designing in a nuclear environment or working with hydrogen isotopes would be an advantage;

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