

Senior Scientific Officer POP-009

Main job	Plasma physics
Department	DIP/Directorate for Plasma Operation
Division	POP / Science
Job Family	Scientific coordination
Application Deadline	13/Nov/2011
Grade	P4
Direct employment	Not required
Purpose	To support the Plasma Operation Directorate Director in the coordination of and contribution to the development of a comprehensive integrated tokamak plasma modelling capability for ITER and in the definition of relevant physics and code requirements to meet ITER needs. This involves close interaction with the ITER Parties in the specification, implementation and monitoring of relevant activities.
Main duties / Responsibilities	<ul style="list-style-type: none">- Leads contributions to the definition of ITER requirements for an integrated plasma modelling capability for the analysis of ITER plasma operation scenarios and of physics processes determining plasma behavior and fusion performance;- Defines and manages a program of modelling and theory research & development (R&D) activities to support the development of a comprehensive integrated modelling capability for tokamak plasmas;- Contributes significantly to the specification and analysis of ITER plasma operation scenarios through a leading role in the provision of an integrated plasma modeling capability;- Contributes significantly to the planning for ITER plasma commissioning and operation;- Is responsible for the integration of R&D results and analysis from the ITER Parties on all aspects of integrated plasma modelling and the exploitation of the results for the enhancement of ITER's integrated plasma modelling capability;- Interacts with and co-ordinates experts in the ITER Parties in the definition, implementation and monitoring of activities in this area;- Contributes to the preparation of documentation defining operational performance requirements for ITER plasma scenarios and synthesizing predictions of ITER performance;- Is responsible for making provisions of support to the management of the Plasma Operation Directorate in liaising with the ITER construction

activities;

- Coordinates ITER staff and visiting researchers' activities in the area of integrated tokamak plasma modelling;

- Maintains a strong commitment to the implementation and perpetuation of the ITER Safety Program, values and ethics.

Measures of effectiveness

- Successfully implements an R&D program supporting the development of a comprehensive integrated fusion plasma modelling capability for ITER and effectively supports the definition of ITER plasma operation scenarios and the planning for ITER plasma operation;

- Successfully develops a team activity in these areas of ITER physics and maintains effective support for ITER construction activities in related areas;

- Successfully develops R&D activities within the international fusion community in this area in support of ITER construction and the preparations for operation.

Level of study

PhD or equivalent degree

Diploma

Fusion Physics or other relevant discipline

Level of experience

At least 10 years

Technical experience

- Experience in fusion research, with significant project management experience and proven technical leadership abilities;

- Outstanding expertise in modelling and theory aspects of fusion physics;

- Extensive experience in managing international collaborations and demonstrated ability to represent an international organization such as ITER;

- Experience in modern integrated modelling infrastructures to build, execute and manage plasma discharge planning and to assemble analysis applications from modular components for multiple users would be advantageous.

Social skills

Ability to work effectively in a multi-cultural environment

Ability to work in a team and to promote team spirit

Specific skills

MS Office professional (Access, Project, Publisher, Visio)

MS Office standard (Word, Excel, PowerPoint, Outlook)

General skills

- Basic Project Management experience is required;

- Excellent written and verbal communication skills.

Languages

English (Fluent)