

PROGRAMME MANAGEMENT UNIT, ITER Physics Department

TITLE OF THE POSITION: Responsible Officer for the Work Packages: (i) Code Development (CD), (ii) Infrastructure Support Activities (ISA) in the ITER Physics Department

A position is available for the Responsible Officer in the ITER Physics Department of the EUROfusion Programme Management Unit in Garching, Germany. The Responsible Officer reports to the Head and Deputy Head of the ITER Physics Department.

The ITER Physics Department supports the Programme Manager in the implementation of the European roadmap to the realisation of fusion energy (<https://www.euro-fusion.org/eurofusion/the-road-to-fusion-electricity/>) for the 14 Work Packages: JET Campaigns (JET1), JET Plasma-Facing Components (JET2), Technological Exploitation of DT Operation (JET3), JET Enhancements (JET4), Medium Sized Tokamak Campaigns (MST1) and Support Activities (MST2), PFC Test Facility Work (PFC), Assessment of New Divertor Concepts (DTT1) and the Design of the Divertor Test Tokamak (DTT2), Preparation for the Exploitation of JT-60SA (SA), Code Development (CD), Infrastructure Support Activities (ISA), and the W7-X Stellarator Campaigns (S1) and Support Activities (S2).

The successful candidate shall be responsible for two work packages: (i) Code Development (WPCD), (ii) Infrastructure Support Activities (WPISA) where he or she shall work with and in support of the CD Project Leader and ISA Team Leaders. He or she shall ensure the overall coordination of WPISA activities including the High Level Support Team (HLST), the Core Programming Team (CPT), and the Gateway and High Performance Computer (HPC) support. The CPT and HLST are led by the Team Leaders, who are reporting directly to the Programme Management Unit Responsible Officer. He or She will chair the HPC and Gateway operation Committee. In addition, he or she shall also take a leading role in developing and overseeing the ITER Physics Department strategy in the area of integrated/first principle modelling, code development and infrastructure support activities in the recent context of a new EUROfusion High Performance Computer (Marconi-Fusion) including the new Gateway computer for integrated modelling fully available in 2017.

The duties of the Responsible Officer are listed below:

- Definition of the CD and ISA Work Programmes: call appropriate meetings, prepare documentation, oversee and support the evaluation of proposals, prepare annual work programme, and, the Task Agreement, in liaison with the CD Project Leader, CPT and HLST team leaders and HPC operation committee.
- Oversee the implementation, functioning and maintenance of the HPC hardware, software and services. Chair the HPC Operation Committee and liaise with the HPC Project Committee, act as HPC Project Committee secretary.
- Implementation of the annual CD and ISA Work Programmes: prepare the ISA annual work programme, ensure good budget control, monitor project progress, report progress to the Programme Manager.

- Evaluation of the CD and ISA Work Programmes: review and report on the achievements of the project members, prepare annual reports
- Programme planning: Support the Programme Manager to ensure that the level-1 schedule of the Roadmap is maintained. Specifically, in the area of code development and Hardware and Software Integrated Support Activities, lead activities on the planning and monitoring of the EUROfusion strategy.
- Work Programme integration: coordinate modelling activities with relevant works in other campaigns and projects and liaise with relevant external bodies, including the International Tokamak Physics Activity, ITER-CT and F4E.

In addition, the successful candidate shall support the Programme Manager in other reasonable duties in support of the Fusion Roadmap, particularly in the area of integrated/first principle modelling, code development and infrastructure support activities.

Candidates shall have:

- significant and broad experience in either plasma physics, or computational science (including HPC expertise) or integrated modelling at PhD level;
- experience in preparing and monitoring scientific programmes;
- a good working knowledge of English and ability to work in an international team;
- experience in project management;
- interpersonal skills to help resolve difficult issues when they arise.

The Responsible Officer shall work in Garching (Germany) and report to the Head and Deputy Head of the ITER Physics Department.

Candidates shall provide a CV and a motivation letter for the interview selection.

ENVISAGED STARTING DATE OF EMPLOYMENT: Immediate
APPLICATION REQUESTED BY: 30 January 2017