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JOB DETAIL

Ref. IO2057 - 12/7/2018

Scientific Officer SCOD-098

Main job Plasma physics

Department SCOD / Science & Operations Department

Division SCOD / Science Division

Section SCOD / SCD / Stability & Control Section

Job Family Scientist-2

Application Deadline
(MM/DD/YYYY) 01/13/2019

Grade P3

Direct employment Not required

Purpose To contribute to and coordinate R&D activities for the development of the ITER disruption mitigation system (DMS) aiming to advance the physics understanding of disruption mitigation and to develop DMS technology. To supervise and oversee the coordination, execution, and analysis of disruption mitigation experiments performed at present tokamaks in support of the ITER DMS development and to coordinate related modelling activities. To prepare DMS commissioning procedures and operational schemes. This work is carried out in the frame of the DMS Task Force and involves close interaction with the ITER Members and relevant operating units of the ITER Organization (IO) in the specification, implementation, and monitoring of activities.

Main duties / Responsibilities

- Contributes to the implementation of the R&D work plan of the DMS Task Force, including definition and coordination of R&D work packages to prepare technical specifications and documents for procurement; and manage contracts (including maintaining documentation, organizing progress meetings, and assessing deliverables);
- Liaises with the Fuelling and Wall Conditioning (FWC) Section of the Fuel Cycle Engineering Division to support the design, procurement and integration of the ITER DMS;
- Contributes to defining and monitoring R&D tasks aiming to industrialize DMS technology for the ITER project;
- Participates in the definition, execution, and analysis of tokamak experiments and modelling tasks as defined in the DMS R&D plan;
- Contributes to maintaining and adapting the DMS R&D work plan;
- Liaises with the ITER Members' community to address high priority disruption mitigation issues within the R&D program;
- Prepares relevant documents for DMS commissioning and operation, including interfaces with interlock systems and operational procedures;
- Contributes to supervising activities in the field of disruption mitigation within the ITER Scientist Fellows Network (ISFN);
- May be required to work outside normal working hours, including nights, weekends and public holidays;
- May be requested to be part of any of the project/construction teams and to perform other duties;
- Maintains a strong commitment to the implementation and perpetuation of the ITER Safety Program, ITER Values (Trust; Loyalty; Integrity; Excellence; Team mind set; Diversity and Inclusiveness) and Code of Conduct.

Measures of effectiveness

- Reports to the Stability and Control Section Leader;
- In response to requests from the Director-General (DG) and/or Science & Operations Department (SCOD) Head, or proactively, informs the DG/ SCOD Head of any important and urgent issues that cannot be handled by the concerned line management and may jeopardize the achievement of the Project's objectives.

- Assures the completion of DMS R&D tasks in terms of scientific execution, engineering results, R&D procurement and implementation in accordance with the required time schedule and within the authorized budget;
- Maintains and implements the DMS R&D work plan within the DMS Task Force, preventing issues and proposing solutions;
- Monitors efficiently the planning of DMS commissioning and operation;
- Liaises effectively with the relevant operating units (ITER Organization, DAs, contractors, DMS Task Force members) in defining and implementing an effective DMS for ITER;
- Communicates and collaborates effectively and

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constructively with all ITER staff, DAs, contractors and DMS Task Force members.

Level of study	PhD or equivalent degree
Diploma	Fusion plasma physics or engineering
Level of experience	At least 6 years
Technical experience/knowledge	<ul style="list-style-type: none">– Extensive experience in similar jobs (involving similar work responsibilities) and/or additional training certificates in relevant domains may be considered a reasonable substitute for the required educational degree.– At least 6 years' expertise in experimental fusion physics or engineering, including experience in the field of plasma disruptions and disruption mitigation;– Experience in managing scientific and/or technology R&D within an international environment;– Experience in experimental data analysis and/or disruption simulations;– Experience in writing reports on system operations, present technical and/or scientific reports on broad topics in English;– Experience in specification, design, implementation and commissioning of a disruption mitigation system in a magnetic fusion device would be advantageous;– Experience of a project-oriented working environment 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 standard (Word, Excel, PowerPoint, Outlook)
General skills	<ul style="list-style-type: none">– Collaborate: Ability to dialogue with a wide variety of contributors and stakeholders;– Communicate Effectively: Ability to adjust communication content and style to deliver messages to work effectively in a multi-cultural environment;– Drive results: Ability to persist in the face of challenges to meet deadlines with high standards;– Manage Complexity: Ability to gather multiple and diverse sources of information to define problems accurately before moving to proposals;– Instill trust: Ability to apply high standards of team mindset, trust, excellence, loyalty and integrity.
Others	<ul style="list-style-type: none">– Normal skills in use of PCs, including Microsoft Office software and operating systems;– Knowledge of scientific data analysis and visualization tools;– Knowledge of disruption simulation code(s) would be an advantage.
Languages	English (Fluent)

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