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JOB DETAIL

Ref. IO2094 - 3/28/2019

Section Leader SCOD-100

Main job	Plasma physics
Department	SCOD / Science & Operations Department
Division	SCOD / Science Division
Job Family	Section Leader
Application Deadline (MM/DD/YYYY)	05/12/2019
Grade	P5
Direct employment	Required
Purpose	To lead and manage the activities of the Experiments and Plasma Operation Section (EPOS) within the Science Division of the Science and Operations Department which relate to: • The further development of the ITER Research Plan; • The development of ITER plasma scenarios and of the plasma scenario simulator for pulse design; • The development of the Plasma Control System and of the Disruption Mitigation System designs. To define and supervise the R&D programmes in present experimental facilities in support of the ITER Research Plan; To play a significant role in the scientific and technical planning of ITER's experimental exploitation including organizing and contributing to the training of the appropriate control room physics operation staff; To manage the activities of the EPOS to ensure that the Section provides the required support to ITER construction teams. Please note that an organizational restructuring is planned in accordance with the needs of the organization and the evolution of the project phases. In this context, the unit of assignment of the present position may be updated in late 2019, early 2020.
Main duties / Responsibilities	Manages the Experiments and Plasma Operations (EPOS) staff, providing leadership and guidance in the execution of their responsibilities, motivating and developing the team members' competencies and experience; Provides overall leadership for the design of the Plasma Control System, the Disruption Mitigation System and of the plasma scenario simulator for pulse design; Defines the strategy for the ITER R&D programmes in all experimental areas related to ITER physics operation and fusion performance optimizations and ensures that the results obtained are integrated into the ITER Research Plan and ITER's operational strategies; Plays a significant role in the scientific and technical planning of ITER's experimental exploitation including organizing and contributing to the training of the appropriate control room physics operation staff; Assists in the refinement of the ITER components' design by providing physics input and assessing the impact of component features (as designed or/and as built) on ITER plasma operation/fusion performance; Interacts closely with relevant operating units of the ITER Organization (IO) and with ITER Members, in particular via de instruments of the International Tokamak Physics Activity (ITPA) the ITER Science Fellows Network (ISFN) and the ITER Operational Network (ION) in the identification of priorities and in the specification, implementation and monitoring of relevant activities; May be requested to be part of any of the project/construction teams and to perform other duties in support of the project; May be required to work outside ITER Organization reference working hours, including nights, weekends and public holidays.
Measures of effectiveness	Defines a comprehensive work programme for EPOS in support of ITER construction activities and the preparation activities required for the operation of ITER Provides timely support to the ITER construction activities in line with the project needs and the required documentation; Establishes effective international collaborations with Members' fusion research institutions, to address high priority R&D issues and to prepare for efficient exploitation of ITER; Provides an efficient EPOS support to the development of

	the Plasma Control System and Disruption Mitigation System design to ensure their timely completion; Liaises with management and responsible officers from the ITER Organization Central Team and Domestic Agencies to ensure the efficient implementation of the work programme; Responsible for Section' staff management and deliverables that meet safety standards, quality schedule and cost requirements; Responsible for implementation of safety nuclear regulation and other safety standards of the section's work; Responsible for adherence to technical standards. SAP Id: 50001058
Level of study	PhD or equivalent degree
Diploma	in Plasma Physics or Engineering
Level of experience	At least 10 years
Technical experience/knowledge	At least 10 years' experience in experimental plasma physics fusion research; Extensive publication record on experimental plasma physics fusion research in recognized scientific journals Extensive experience relating to plasma operation of fusion facilities including pulse design, diagnostics requirements and pulse execution; Experience in the definition and execution of experiments in fusion facilities, including on organizational aspects of experimental campaigns; Experience in managing scientific and/or technology R&D programmes within an international environment; Experience in the specification, design, implementation and commissioning of operational systems in fusion devices. The required education degree may be substituted by extensive professional experience involving similar work responsibilities and/or additional training certificates in relevant domains.
People management experience	At least 5 years
General skills	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/solutions; Instill trust: Ability to model high standards of team mindset, trust, excellence, loyalty and integrity.
Others	Use of standard PC software (Microsoft Office); Knowledge of scientific software (e.g. Matlab, etc.) would be an advantage.
Languages	English (Fluent)