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## JOB DETAIL

Ref. IO1831 - 3/10/2017

## Science &amp; Operations Department Head SCOD-001

**Main job** Executive Management**Department** SCOD / Science & Operations Department**Job Family** Head of Department**Application Deadline  
(MM/DD/YYYY)** 06/30/2017**Grade** D1/D2**Direct employment** Required

**Purpose** To support the ITER Organization (IO) Director-General (DG) by providing leadership in all matters related to operation, plasma performance and control, physics performance projection, coordination of ITER and worldwide tokamak physics R&D activities, development of ITER's central control & instrumentation systems, and of the framework for the planning and implementation of all aspects of the operation of the ITER facility, including, as a priority item, integrated commissioning, machine operations, plasma control and maintenance activities. In particular, to manage scope, schedule, cost, risk and quality of the related work, and to oversee interfaces to all other technical systems and interact with the Deputy Director General / Chief Operating Officer (DDG/COO) where necessary in this coordinating role of the global systems integration, construction and assembly with the activities of technical departments, Project Teams and Domestic Agencies (DAs). To position ITER to be a facility and a research team with a leading, world-class fusion science and engineering program.

- Manages all activities and projects within Science and Operations Department's (SCOD) responsibilities relevant to scope, schedule, cost, risk, quality and, on interacting with DDG/COO in this coordinating role, regularly reports to the DG;
- Provides effective leadership by ensuring managers and team members are motivated, and by developing their skills & experience through close staff collaboration;

**Main duties / Responsibilities**

- Oversees the interfaces between the IO and DAs Leaders related to SCOD's activities and projects;
- Provides support in the construction of the ITER facility and for the design and procurement activities in other technical departments (Dpts) through plasma performance specifications, development of integrated commissioning, operation and maintenance requirements, definition of instrumentation and control interfaces and standards;
- Establishes a comprehensive analysis of fusion plasma behaviour in ITER's operating scenarios, specifies & supervises the development of tokamak physics databases, analysis and simulation tools, and develops R&D activities to resolve challenges in meeting ITER's performance goals;
- Develops an international research organization that engages all ITER Members and facilitates world-class research in close collaboration with the Members' research activities; manages the ITER science fellowship network;
- Oversees the development and implementation of a central control and instrumentation system for the ITER facility including infrastructure controls, plant controls, interlocks, safety systems etc;
- Ensures integration of safety relevant systems into the control system, development of application programs to support testing & operation of all systems, development and installation of the necessary networks across the site, implementation of data storage and access for user operation;
- Develops the framework for the planning and implementation of all aspects of the commissioning, operation and maintenance; manages the ITER operations network scheme;
- Establishes the necessary operator training framework to ensure the safe & reliable operation, meeting all regulatory requirements;
- Develops and maintains programs/agreements with DAs and various institutes (national and international) & universities, and fosters collaboration for students or others;
- Maximizes human capital and staff's commitment to achieving the IO goals;

**Measures of effectiveness** •Ensures work delivery consistent with the budget of the Department in ensuring that IO's goals are achieved in a timely and effective manner, which meets safety, quality,

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cost and schedule targets; manages the staffing of the Dpt;  
 • Builds and maintains relationship within IO, with DAs and with other major external stakeholders;  
 • Performs other duties as necessary;  
 • Maintains a strong commitment to the implementation and perpetuation of the ITER Safety Program, values and ethics.

- Supports proactively the DG in implementing the ITER scientific and technical scope;
- Manages efficiently the construction, integrated commissioning, operations, maintenance and research activities;
- Maintains effective communication with all IO units, stakeholders & DAs within the technical scope and manages the corresponding interfaces;
- Manages the planning, implementation of commissioning & operations to achieve the integration of all systems into the ITER facility's operational capability;
- Develops a local and visiting scientific organization & establishes an ITER scientific program serving the needs of the IO & of the worldwide fusion community;
- Manages effectively the managers & the achievement of their performance targets;
- Responsible for deliverables that meet safety standards, quality, schedule and cost requirements;
- Responsible for implementation of nuclear safety regulations and standards within the Department, as well as for the adherence to technical standards.

<b>Level of study</b>	PhD or equivalent degree
<b>Diploma</b>	fusion plasma physics and/or fusion technology
<b>Level of experience</b>	At least 20 years
<b>Technical experience/knowledge</b>	<p>-At least 20 years' experience in fusion plasma and/or technology research;</p> <p>-At least 10 years experience in operational aspects of fusion facilities and in coordinating science/ technology R&amp;D projects within an international framework;</p> <p>-Outstanding contributions to fusion science and/ or technology;</p> <p>-Demonstrated experience in the successful implementation of development and/or construction projects within major scientific research facilities or programs;</p> <p>-Demonstrated experience in the successful interaction with high-level stakeholders in the scientific/technical international environment.</p> <p>-At least 15 years of high level and supervisory positions in major organizations in a scientific or construction environment;</p> <p>-Ability to provide effective leadership;</p> <p>-Ability to motivate and develop the team members' skills and experience.</p>
<b>Social skills</b>	<p>Ability to work effectively in a multi-cultural environment</p> <p>Ability to work in a team and to promote team spirit</p>
<b>Specific skills</b>	MS Office standard (Word, Excel, PowerPoint, Outlook)
<b>General skills</b>	<p>-Ability to negotiate with influence and convince internal and external stakeholders;</p> <p>-Computer and IT skills consistent with managing a complex one-of-kind technical project.</p>
<b>Others</b>	<p>Direct Supervisor and line management:</p> <ul style="list-style-type: none"> <li>• Reports to the DG as direct line manager;</li> <li>• Interfaces closely with the DDG/CCO in his coordinating role of the global systems integration, construction and assembly, and with all other departments, and in particular with Central Integration Office to support excellent integration and interface definition, ensure configuration control, maintain baseline documentation, and ensure systems under SCOD responsibility satisfy project performance requirements;</li> <li>• Interfaces with the construction design team on building requirements;</li> <li>• Maintains excellent communication with other organizations related to the ITER collaboration, as well as the Members' fusion communities;</li> <li>• Collaborates closely with ITPA and Members' fusion facilities to implement research activities based on ITER's high priority physics needs.</li> </ul>
<b>Languages</b>	English (Fluent)

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