

# Job Title: Blanket Section Leader IO0208

Requisition ID **3900** - Posted **27/04/2021** - (France, 13067 St Paul Lez Durance Cedex) - **Engineering of Systems - New Posting**

The ITER Organization brings together people from all over the world to be part of a thrilling human adventure in southern France—building the ITER Tokamak. We require the best people in every domain.

We offer challenging full-time assignments in a wide range of areas and encourage applications from candidates with all levels of experience, from recent graduates to experienced professionals. Applications from under-represented ITER Members and from female candidates are strongly encouraged as the ITER Organization supports diversity and gender equality in the workplace.

Our working environment is truly multi-cultural, with 29 different nationalities represented among staff. The ITER Organization Code of Conduct gives guidance in matters of professional ethics to all staff and serves as a reference for the public with regards to the standards of conduct that third parties are entitled to expect when dealing with the ITER Organization.

The south of France is blessed with a very privileged living environment and a mild and sunny climate. The ITER Project is based in Saint Paul-lez-Durance, located between the southern Alps and the Mediterranean Sea—an area offering every conceivable sporting, leisure, and cultural opportunity.

To see why ITER is a great place to work, please look at this video

**Application deadline:** 13/06/2021

**Domain:** Engineering

**Department:** Engineering Design

**Division:** Internal Components

**Section:** Blanket

**Job Family:** Line Management

**Job Role:** Section Leader

**Job Grade:** P5

**Language requirements:** Fluent in English (written & spoken)

**Contract duration:** Up to 5 years

## **Purpose**

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As Blanket Section Leader, you will lead and manage the Blanket Section in the design, procurement, assembly, installation and commissioning of associated Blanket systems, including work organisation, interfaces to other systems, and to the Domestic Agencies (DAs) responsible for procurement. Additionally, you will be responsible for overseeing and managing all technical aspects of the Section, developing detailed implementation plans for all work, and monitoring and controlling costs and schedules for all Section activities.

You will also be responsible for leading and organizing all activities within the Blanket Integrated Product Team (IPT) with participants from the ITER Organization (IO) and the DAs.

## **Background**

The ITER Blanket system will be the first ever blanket designed and built for operation in a fusion reactor. It is one of the most technically challenging components of the ITER machine, accommodating high heat fluxes from the plasma, large electromagnetic loads during off-normal events, and demanding interfaces with many key components while providing its neutron and thermal shielding, energy transfer, plasma limiter and diagnostic passage functions. The Blanket covers most of the plasma-facing area; its design is modular, with each module consisting of a First Wall panel armoured with beryllium tiles attached to a Shield Block. The modules are then attached to the Vacuum Vessel through a set of Blanket Connection components and cooled by water provided through a manifold system.

## **Major Duties/Roles & Responsibilities**

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- Leads the Section in planning work activities and ensuring team members are motivated, constantly developing their skills and experience, and committed to achieving goals;
  - Provides effective leadership for the Blanket Section and the Blanket IPT, ensuring the blanket collaboration with the DAs and IO is conducted effectively;
  - Organizes, coordinates, and implements the activities of the Blanket Section and Blanket IPT design and procurement, monitors that all key milestones are met on schedule;
  - Organizes the Blanket IPT effort for the post-procurement agreement (PA) signature phase among stakeholders procuring the same components to facilitate the post-PA activities and processes;
  - Manages Deviation Requests (DRs), Non-Conformance Requests (NCRs) and Project Change Requests (PCRs);
  - Manages the design, specification, IO procurement, assembly, and installation of the Neutral Beam Port Liners;
  - Manages the IO procurement, assembly, and installation of the First Plasma Protection Components;
  - Oversees and manages all technical aspects of the Blanket System, developing detailed implementation plans for all work, including monitoring and controlling costs and schedules for all activities;
  - Ensures the engineering design of associated systems meets the requirements of the ITER machine;
  - Prepares hand-over packages for installation, assembly, testing, and commissioning of the systems to ensure a successful operation of ITER Facilities;
  - Builds and maintains relationship with internal and external stakeholders and effectively interfaces with ITER Domestic Agencies (DAs) responsible for procurement;
  - Assures goals are achieved within safety, quality, cost, and schedule targets;
  - 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.

Special notice: you will be requested to work on beryllium-containing components, and required to follow the established ITER Beryllium Management Program for working safely with beryllium. Full training and support will be provided by the ITER Organization.

### Measures of Effectiveness

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- Leads and Manages the Blanket Section effectively and providing direction and coaching to staff;
- Leads the Blanket IPT effectively and providing direction and coaching to staff;
- Maintains effective communications within the Blanket Section and the Blanket IPT and interfacing organizations through regular updates and reporting;
- Ensures that the Section deliverables meet safety standards, quality, schedule and cost requirements;
- Monitors efficiently Key Performance Indicators for the Section;
- Implements safety nuclear regulation and other safety requirements standards of the section's work.

### Experience & Profile

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- **Professional Experience:**
  - At least 10 years' experience in leading activities for engineering or construction management within a large complex international engineering or scientific project.
- **Education:**
  - Master degree or equivalent in engineering or other relevant discipline;
  - The required education degree may be substituted by extensive professional experience involving similar work responsibilities and/or additional training certificates in relevant domains.
- **Language requirements:**
  - Fluent in English (written and spoken).
- *Technical Competencies and demonstrated experience in:*
  - Quality management: knowledge of requirements for international quality and safety standards, methods and practices for both management and products;

- Project management: planning, measuring progress, managing risks and costs, and reporting on progress of initiatives within defined human and financial constraints;
- Team management: providing strong leadership, monitoring performance and developing competencies & motivating staff;
- Contract management and execution: defines requirements, performs sourcing activities, monitors contract delivery, and manages external parties to ensure implementation per contractual requirements;
- Interface management: identify, maintain and resolve technical and functional interfaces;
- Problem solving: assess problems, identify root causes, and reach practical solutions to reach project objectives;
- Planning and schedule control: define scopes of work, duration, estimating cost, sequencing, risk and planning for change management;
- Specialized domains of work and technical expertise: specialized expertise in 1) the design and manufacture of components for UHV and/or nuclear devices, 2) the fabrication (forming, machining, welding) of large complex structures, 3) working with nuclear and conventional design codes, and 4) understanding of magnetically confined nuclear fusion and plasma facing components.
- *Behavioral Competencies:*
  - Collaborate: Ability to facilitate 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 analyze multiple and diverse sources of information to understand/define problems accurately before moving to proposals;
  - Instill trust: Ability to apply high standards of team mindset, trust, excellence, loyalty and integrity.

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***The following important information shall apply to all jobs at ITER Organization:***

- 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;
- ITER Core technical competencies of 1) Nuclear Safety, environment, radioprotection and pressured equipment 2) Occupational Health, safety & security 3) Quality assurance processes. Knowledge of these competencies may be acquired through on-board training at basic understanding level for all ITER staff members;
- Implements the technical control of the Protection Important Activities, as well as their propagation to the entire supply chain;
- May be requested to work on beryllium-containing components. In this case, you will be required to follow the established ITER Beryllium Management Program for working safely with beryllium. Training and support will be provided by the ITER Organization;
- May be requested to be part of any of the project/construction teams and to perform other duties in support of the project;
- Informs the IO Director-General, Domain Head, or Department/Office Head of any important and urgent issues that cannot be handled by line management and that may jeopardize the achievement of the Project's objectives.