

# IO2093 Remote Handling Control System Engineer PED-190

## General information

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|--------------|--|
| Job category | Standard   |
| Status       | Published  |
| Department   | PED / Plant Engineering Department                     |
| Division     | PED / Remote Handling & Radioactive Materials Division |
| Section      | PED / RHRM / Remote Handling Section                   |

## Job description

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|--------------------------------|--|
| Main job                       | Engineering - Robotics, Industrial technologies  |
| Title of the position          | Remote Handling Control System Engineer PED-190  |
| Job family                     | Engineer - 1   |
| Grade                          | P2   |
| Direct employment              | Not required   |
| Purpose                        | <p>To support the electrical control engineering design activities within the Remote Handling (RH) team,</p> <p>To provide electrical and control engineering support to ITER's RH suppliers in order to ensure that the systems can be integrated and operated correctly when delivered to the ITER site,</p> <p>To provide expertise on communication networks and protocols for the RH system,</p> <p>To define and manage hardware standards and standard parts for RH control cubicles,</p> <p>To form part of the RH team responsible for receiving, integrating, operating and maintaining the RH systems delivered on-site.</p> <p>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.</p>  |
| Main duties / Responsibilities | <p>Works with staff from across the project to develop a complete understanding of the ITER specific electrical and control needs to ensure the proper integration of the RH systems;</p> <p>Provides guidance to the ITER Domestic Agencies and suppliers regarding electrical and control system development to ensure the subsequent successful integration of the systems when delivered to site;</p> <p>Works with suppliers to define and maintain suitable standard parts for RH control hardware;</p> <p>Manages the power and cabling requirements for the distributed RH Systems;</p> <p>Guides suppliers through the qualification of RH specific Instrumentation and Control (I&amp;C) components for use in the investment protection and safety protection control systems;</p> <p>Ensures that the RH systems are developed, installed and operated in accordance with European electrical machinery safety standards;</p> <p>Manages the integration of systems within the RH network infrastructure and the tuning of the network performance;</p> <p>May be required to work outside normal working hours, including nights, weekends and public holidays;</p> <p>May be requested to be part of any of the project/construction teams and to perform other duties in support of the project schedule.</p> |
| Measures of effectiveness      | <p>Special notice: May be requested to work on beryllium-containing components. In this case, he/she 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.</p> <p>Completes design activities and/or procurement in a timely manner and within defined cost;</p> <p>Enhances the system performance or reduces system costs whilst keeping within specified technical and safety requirements;</p> <p>Provides efficient and timely support for all of the aforementioned activities related to the goals of the Remote Handling and Radioactive Materials Division.</p>   |

## Applicant criteria

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|--------------------------------|--|
| Level of study                 | Master or equivalent degree  |
| Diploma                        | Electrical and/or Control Engineering or other   |
| Level of experience            | At least 5 years   |
| Technical experience/knowledge | <p>At least 5 years' experience in the field of Electrical Engineering, Control Engineering or a closely related field.</p> <p>Experience in working on remote handling and/or robotic systems;</p> <p>Experience in the design, commissioning and maintenance of instrumentation and control cubicles;</p> <p>Experience in the implementation of communication networks;</p> <p>Experience in defining both power and cabling requirements for machine control installations;</p> <p>Experience in the integration and procurement of large and complex systems and facilities would be advantageous;</p> <p>Experience in complex, multidisciplinary projects would be advantageous;</p> <p>The required education degree may be substituted by extensive professional experience involving similar work responsibilities and/or additional training certificates in relevant domains.</p> <p>Collaborate: Ability to dialogue with a wide variety of contributors and stakeholders;</p> <p>Communicate Effectively: Ability to adjust communication content and style to deliver messages to work effectively in a multi-cultural environment;</p> |
| General skills                 | <p>Drive results: Ability to persist in the face of challenges to meet deadlines with high standards;</p> <p>Manage Complexity: Ability to gather multiple and diverse sources of information to define problems accurately before moving to proposals;</p> <p>Instill trust: Ability to apply high standards of team mindset, trust, excellence, loyalty and integrity.</p>   |
| Languages                      | English (Fluent)   |
| Others                         | <p>MS Office software;</p> <p>Electrical design tools;</p> <p>C/C++/Java software programming.</p>   |