

# IO1979 Magnet Engineer - TED-160

## General information

Job category	Standard
Status	Published
Department	TED / Tokamak Engineering Department
Division	TED / Magnet Division
Section	TED/MAG/Mag. instrumentation & IVC Section

## Job description

Main job	Engineering - Electronics
Title of the position	Magnet Engineer - TED-160
Job family	Engineer - EC
Grade	P1
Direct employment	No
Purpose	<p>To develop the functional specifications required for the In Vessel Coils (IVC) and Magnet local control development.</p> <p>To manage interfaces of the IVC and Magnet control systems with the other systems.</p> <p>To develop the assembly and commissioning procedures of the IVC and Magnet control system.</p> <p>Issues the functional specifications required for developing the IVC and Magnet control applications;</p> <p>Issues the detailed functional interfaces with the Central Instrumentation &amp; Control and other relevant components and systems to get the IVC and Magnet system properly integrated to other ITER systems;</p> <p>Supports the implementation of the electronics for the IVC and Magnet controls;</p> <p>Contributes to the development of the IVC and Magnet assembly plans;</p> <p>Supports the IVC and Magnet analysis and modelling.</p> <p>Contributes to the Magnet and IVC system assembly, commissioning and future operation;</p> <p>May be required to work outside ITER Organization reference working hours, including nights, weekends and public holidays;</p>
Main duties / Responsibilities	<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> <p>Maintains a strong commitment to the implementation and perpetuation of the ITER Safety Program, values and ethics;</p> <p>Reports to the Magnet Instrumentation and IVC Section Leader;</p> <p>In response to requests from the Director-General and/or Head of Tokamak Engineering Department (TED), or proactively, informs the DG/ Head of TED 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.</p>
Measures of effectiveness	<p>Issue and maintain usable and appropriate functional specifications for the operation of the Magnet and IVC systems;</p> <p>Issue and maintain efficiently Magnet and IVC Central I&amp;C interfaces and manage the proper implementation of these interfaces;</p> <p>Refines the IVC control system specifications within the defined quality, cost and schedule;</p> <p>Supports efficiently procurement activities for the IVC instrumentation;</p> <p>Generates and maintains accurate, consistent, comprehensive and high quality documentation in this area.</p>

## Applicant criteria

Level of study	Master or equivalent degree
Diploma	Electrical Engineering or other related discipline
Level of experience	At least 2 years

Technical experience/knowledge	<p>At least 2 years' experience in complex system design;  Basic Project Management experience is required;  Experience in writing technical documents is required;  Experience in developing I&amp;C systems is required;  Experience in modelling activities is required;  Knowledge of IVC design and operation is considered as an advantage;  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.</p>
Social skills	<p>Ability to work effectively in a multi-cultural environment , Ability to work in a team and to promote team spirit, Ability to communicate effectively, Ability to work under pressure, Good planning and organisational skills</p>
General skills	<p>Ability to facilitate dialogue with a wide variety of contributors and stakeholders.  Ability to adjust communication content and style to deliver messages.  Ability to persist in the face of challenges to meet deadlines with high standards.  Ability to model high standards of team mindset, trust, excellence, loyalty and integrity.</p>
Languages	<p>English (Fluent)</p>
Specific skills	<p>Ansys, MS Office standard (Word, Excel, PowerPoint, Outlook)</p>
Others	<p>Good IT skills (e.g. MS Office) are mandatory.  Experience in analysis code ANSYS is required.</p>