

ITER 국제기구 공모 직위 직무기술서 (제159차)

○ 1개 직위

구분	분야	소속	직위	Job No.	등급
①	토카막 엔지니어링 (TED)	Magnet Division Superconductor Systems & Auxiliaries Section	Mechanical Engineer	TED-100	P3

IO1742 Mechanical Engineer - TED-100

General information

Job category	Standard
Status	Published
Department	TED / Tokamak Engineering Department
Division	TED / Magnet Division
Section	TED / MAG / Superconductor Systems & Auxiliaries Section

Job description

Main job	Engineering - Mechanics
Title of the position	Mechanical Engineer - TED-100
Job family	Engineer - 2
Grade	P3
Direct employment	Not required
Purpose	<p>Responsible for the detailed engineering of the In-Vessel Coils components, from design to manufacture and assembly inside the vacuum vessel, follow up their procurement, contribute to the development of the baseline documentation and assist in the development/implementation of quality assurance and quality control.</p> <ul style="list-style-type: none">-Drafts and follows up the design of the in-vessel coils components;-Contributes to the implementation of the in-vessel-coils within the vacuum vessel;-Assists in management of interfaces with in-vessel components by producing and updating interface sheets;-Drafts assembly plans of the in-vessel coils components such as coils, feeders and joints;-Contributes to the design of full-size mock-up(s) for assembly and in-situ manufacturing trials;-Supports the production of the 3D CAD models, and of the engineering and interface drawings;-Contribute to assembly tolerance and to tolerance mitigation;-Prepares Intermediate and Final Design Reviews; assist in resolution of review chits;-Supports the monitoring of in-vessel coils components production;-Contributes to manufacture, installation and operation of full-size mock-ups;-Implements qualification and testing of critical procedures and sub-assemblies;-Develops of Assembly Inspection Plans;
Main duties / Responsibilities	<ul style="list-style-type: none">-Contributes to assembly and in-situ manufacture of the in-vessel coils and of in-vessel coil feeders.-Implements quality assurance and quality control of above activities in collaboration with the Central Integration Office;-Contributes to data input and verification in manufacturing database;-Performs other duties in support of the project schedule as described in the Detailed Work Schedule and the Strategic Management Plan & upon management request;-May be requested to belong to any project team dealing with above activities and perform other duties upon management request;-Maintains a strong commitment to the implementation and perpetuation of the ITER Safety Program, values and ethics.-Reports to the Superconductor Systems & Auxiliaries Section Leader;-Works closely with the Technical Responsible Officer for the In-Vessel coil systems;-Interacts with other members of the Magnet Division and/or other Departments as required by the In-Vessel coil design, in particular with the CAD office, integration and assembly teams;-Interacts with industries regarding fabrication and quality control as requested;-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.
Measures of effectiveness	<ul style="list-style-type: none">-Issues design plan; design description documents and interface sheets within the defined costs & schedule;-Generates accurate CAD models, engineering and assembly drawings;

- Draft efficiently assembly plans and of assembly and inspection plans;
- Timely & efficient contributions to critical qualification and testing;
- Maintains up to date documentation for the defined scope of work;
- Timely contributions to full-size mock-up trials;
- Implements effectively quality assurance and quality control requirements for in-vessel coil activities.

Project Construction Phase

Applicant criteria

Level of study	Master or equivalent degree
Diploma	Mechanical Eng. field or relevant discipline
Level of experience	At least 8 years
Technical experience/knowledge	-Extensive 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.
	-At least 8 years' experience in design, manufacture and/or assembly of electro magnets and/or of large bolted/welded mechanical components; -Practical experience in CAD and/or engineering/manufacturing drawing production and review; -Practical experience in production and/or assembly of electro magnets and/or of large bolted/welded mechanical; -Experience with international codes and standards such as ISO, EN, RCC-MR, ASTM and ASME for construction of pressure equipment and/or nuclear equipment would be an advantage; -Practical experience in structural analysis using ANSYS would be an advantage.
Social skills	Ability to work effectively in a multi-cultural environment , Ability to work in a team and to promote team spirit
General skills	-Ability to both work in a team and coordinate a group of professionals; -Ability to communicate clearly and write technical reports and specifications in English;
Languages	English (Fluent)
Specific skills	MS Office standard (Word, Excel, PowerPoint, Outlook)
Others	-Good command of the Microsoft Office package. -Knowledge of CATIA would be an advantage.