

# IO1177 Magnet Engineer - TKM-006

## General information

Job category	Standard
Confidential	No
Status	Confirmed
Department	DIP/Directorate for Tokamak
Division	TKM / Magnet Division
Section	TKM / MAG / TF Coil Section

## Job description

Main job	Engineering - Mechanics
Title of the position	Magnet Engineer - TKM-006
Job family	Project engineering
Grade	P4
Direct employment	Not required
Supervised by:	Section Leader
Purpose	<p>To contribute to the procurement and mechanical/electrical design of the ITER Toroidal Field (TF) coils, in the areas of the TF coil cases, precompression rings, winding packs and radial plates.</p> <p>Is responsible for the design, R&amp;D and qualification testing of the TF winding pack and precompression rings;</p> <p>Develops and updates the design and analysis of the TF winding packs and TF coil cases;</p> <p>Maintains the design and analysis documentation on the TF coils;</p> <p>Maintains the Computer Aided Design (CAD) models and drawings for the TF coils and interfacing structures, ensuring that manufacturing changes are implemented;</p> <p>Manages the magnet CAD drawings and models, interface to the CAD &amp; Design Coordination, ensuring availability and functionality of drawing control within the division;</p> <p>Technical Responsible Officer for the TF winding pack and precompression rings procurement arrangements;</p>
Main duties / Responsibilities	<p>Follows and maintains the schedule for the TF coils and Precompression Rings;</p> <p>Is responsible for monitoring the TF winding packs and precompression rings fabrication, ensuring proper application of quality controls;</p> <p>Contributes as technical support within TF section to maintain, document the internal and external interfaces respectively for winding insertion and TF assembly.</p> <p>Performs other duties in support of the project schedule as described in the Detailed Work Breakdown Structure Schedule or Strategic Management Plan;</p> <p>Performs other duties linked to the above purpose upon management request, as necessary;</p> <p>Maintains a strong commitment to the implementation and perpetuation of the ITER Safety Program, values and ethics.</p>
Measures of effectiveness	<p>Reports to the Toroidal Field Coil Section Leader;</p> <p>Interfaces with other groups in the Magnet Division regarding drawing and CAD administration.</p> <p>Interfaces closely with Responsible Officer for TF structure procurement;</p> <p>Interfaces with other Departments as required by the magnet design, in particular to the CAD &amp; Design Coordination Division;</p> <p>Interfaces with the Technical Responsible Officer and their industries regarding fabrication, R&amp;D and distribution of data (documents and CAD models/drawings);</p> <p>In response to requests from the Director-General (DG) and/or Director of Tokamak(TKM) Directorate, or proactively, informs the DG/ Director of TKM Directorate 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> <p>Effective functioning of magnet document and CAD drawing preparation and distribution;</p> <p>Successful qualification of TF winding packs, precompression rings and coil supports;</p> <p>Timely fabrication of rings and supports.</p>

## Applicant criteria

Level of study	Master or higher degree
Diploma	Engineering mechanical or electrical
Level of experience	At least 10 years
Technical experience	At least 10 years' experience in the engineering field; At least 5 years' experience in design, fabrication and operation of superconducting coils; Experience of requirements for design and procurement management in large projects; Experience with magnetic field coil design and superconductivity and/or with electromagnetic effects on structural design would be considered as an advantage; Knowledge of metal forming techniques such as forging, casting, rolling and welding; Familiarity with mechanical design codes and standards such as ASME
Social skills	Ability to work effectively in a multi-cultural environment , Ability to work in a team and to promote team spirit
General skills	Basic Project Management experience is required.
Languages	English (Working)

## Origin of the job

Entity	ITER ORGANIZATION
Recruitment reason	Replacement

## HR Follow-up

Email alerts	Every 10 applications
Main recruiter in charge	Mélanie Picarel
Followed by	Jean-Yves Tataranno
Alert recipient(s)	Mélanie Picarel
Publication default start date	3/27/2012
Publication default end date	4/26/2012
Automatic update	No