

IO1309 Instrumentation & Process Control Engineer CEP-138

General information

Job category	Standard
Confidential	No
Status	Draft
Department	DIP/Directorate for Central Engineering & Plant
Division	CEP / Plant Engineering Division
Section	CEP / PED / Cryogenic System Section

Job description

Main job	Engineering - Cryogenics
Title of the position	Instrumentation & Process Control Engineer CEP-138
Job family	Engineer - 1
Duration of the contract	5 years
Grade	G6
Direct employment	Required
Supervised by:	Section Leader
Purpose	<p>To prepare the specifications and requirements of low temperature instrumentation for the ITER cryogenic system.</p> <p>To produce the functional analysis and process control of cryoplants, cryolines and cryogenic distribution boxes installed inside the Tokamak building for forced flow cooling of magnets and cryopumps.</p> <p>To define dedicated hardwired interlocks for the ITER cryogenic system safe operation.</p> <p>To contribute to the requirements and interfaces of ITER wide cryogenic process, instrumentation and controls.</p>
Main duties / Responsibilities	<p>Prepares and reviews the instrument and process control design interfaces of the cryogenic components and subsystems;</p> <p>Prepares and reviews the instrument and process control system aspects of deliverables of cryogenic systems;</p> <p>Prepares the functional analysis and process control for the liquid helium, liquid nitrogen and cryogenic distribution systems;</p> <p>Defines the instrumentation and controls for the liquid helium, liquid nitrogen and cryogenics distribution system;</p> <p>Develops and performs the required testing, commissioning and operation plan for the cryogenic system instrumentation and process control;</p> <p>Establishes and executes the operation and maintenance procedures for the cryogenic system and defines the required operational spare parts and maintenance plan;</p> <p>Communicates and collaborates with the ITER Nuclear Safety and Environmental Protection Division to facilitate the licensing process and provides technical support for the definition and update of safety interfaces;</p> <p>Provides the Section's technical document management and participates in preparing or updating its baseline documentation;</p> <p>Performs other duties in support of the project schedule as described in the Detail Work Schedule (DWS) and the Strategic Management Plan (SMP);</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> <p>Reports to the Cryogenic System Engineering Section Leader;</p> <p>Interacts with members within ITER and outside collaborators as required;</p> <p>In response to requests from the Director-General (DG) and/or Director for Central Engineering and Plant (CEP) Directorate, or proactively, informs the DG/ Director for CEP 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>

Measures of effectiveness	Project Construction Phase
	Successfully and timely prepares and reviews the instrument and process control design interfaces of the cryogenic components and subsystems;
	Prepares and reviews the instrument and process control system aspects of deliverables of cryogenic systems;
	Prepares the functional analysis and process control for the liquid helium, liquid nitrogen and cryogenic distribution systems;
	Defines the instrumentation and controls for the liquid helium, liquid nitrogen and cryogenics distribution system;
	Communicates as required with interfaces in the Organization to develop the Instrumentation and Control of the Cryogenic System

Applicant criteria

Level of study	Master or equivalent degree
Diploma	In Process, Nuclear, Cryogenics Engineering
Level of experience	At least 5 years
	Work experience in the development, design, procurement and commissioning of complex cryogenics installations.
Technical experience	Excellent knowledge of industrially proven cryogenic equipment, instrumentation and controls and associated R&D for specific applications; Good knowledge of design code and standards; Excellent knowledge of process engineering and analysis of operating modes; Good practical knowledge of factory acceptance tests and commissioning of complex equipments;
Social skills	Ability to work effectively in a multi-cultural environment , Ability to work in a team and to promote team spirit
Languages	English (Working)
Specific skills	MS Office standard (Word, Excel, PowerPoint, Outlook)

Origin of the job

Entity	ITER ORGANIZATION
Recruitment reason	New position

HR Follow-up

Email alerts	Every 10 applications
Main recruiter in charge	Mélanie Picarel
Followed by	CHOE Hyunejune
Alert recipient(s)	Mélanie Picarel
Publication default start date	4/29/2013
Publication default end date	5/29/2013
Automatic update	No