

ITER 국제기구 공모 직위 직무기술서 (제195차)

○ 3개 직위

구분	분야	소속	직위	Job No.	등급
①	플랜트 엔지니어링 (PED)	Cooling Systems Engineering Division Cooling Water System Section	Process Engineer for Commissioning	PED-077	P2
②		Plant Engineering Department Remote Handling & Radioactive Materials Division	Hot Cell Engineer	PED-016	G5
③				PED-109	G5

IO1836 Process Engineer for Commissioning - PED-077

General information

Job category	Standard
Status	Published
Department	PED / Plant Engineering Department
Division	PED / Cooling Systems Engineering Division
Section	PED / CSED / Cooling Water System Section

Job description

Main job	Engineering - Nuclear Power
Title of the position	Process Engineer for Commissioning - PED-077
Job family	Engineer - 1
Grade	P2
Direct employment	Not required
Purpose	<ul style="list-style-type: none">-To issue procedures for the stand-alone testing and commissioning of Cooling Water System (CWS) (e.g. Preparation and development of Commissioning Technical Specifications and Commissioning Procedures as well as defining requirements making compliance with interfaces).-To issue procedures and documents for the integrated phased testing and commissioning of Cooling Water System (CWS) in accordance to the ITER integrated operations.-To participate in the testing of the CWS equipment after manufacturing according to the relevant Factory Acceptance Tests (FAT) performing GAP analysis as required.-To participate to the CWS process engineering design activities according to the scheduled construction and assembly phases and development of CAD as required.
Main duties / Responsibilities	<ul style="list-style-type: none">-Participates to the finalization of the process engineering for the phased commissioning of the CWS systems namely for the Tokamak Cooling Water Systems (TCWS) and for the Component Cooling Water System (CCWS), Chilled Water System (CHWS) and Heat Rejection System (HRS);-Prepares strategies for testing the CWS systems in stand-alone mode according to the time schedule;-Drafts the time schedule for the relevant testing, commissioning and operation in close collaboration with other ITER IO Divisions/Directorates;-Supports the CWS for ensuring the proper integration of CWS for testing and commissioning all the other relevant clients aiming at identifying possible corrective actions to add flexibility and reduce time schedule during testing and commissioning phases;-Participates to the finalization of the CWS functional analyses, considering the requirements during testing and commissioning of all the CWS systems;-Collaborates with the Instrumentation & Control (I&C) Engineers in the CWS Section to develop the control logic design studies and their integration in the CWS systems;-Verifies with the Nuclear Safety Engineer how to check and to assess during the commissioning the accidental scenarios involving CWS;-Participates in the manufacturing of CWS equipment namely to attend to the Factory Acceptance Tests (FAT);-Develops all required CAD drawings to fulfill the objectives/responsibilities as required for the job;-Monitors the testing and commissioning, identifying the risk, proposing solutions and implementing proper mitigation plan;-Performs other duties in support of the project schedule;-May be requested to be part of any of the project/construction teams and to perform other duties;-Maintains a strong commitment to the implementation and perpetuation of the ITER Safety Program, values and ethics. <ul style="list-style-type: none">-Reports to the Cooling Water System Section Leader;-Acts as an interface with other internal and external resources for the design of the Cooling Water System components;-In response to requests from the Director-General and/or Plant Engineering Department (PED) Director, or proactively, informs the DG/ PED Director of any important and urgent issues that

Measures of effectiveness	cannot be handled by the concerned line management and may jeopardize the achievement of the Project's objectives.
	<ul style="list-style-type: none"> -Produces technical procedures and prepares accurate reports for testing and commissioning of the CWS Systems in a timely manner; -Produces, plans and/or checks the time schedules for both the stand alone and the integrated testing and commissioning of the CWS Systems in a timely manner taking in to account the requirements and interfaces; -Produces testing/commissioning reports on time in a phased and sequence having high quality standard and as per industrial practices and/or large facilities; -Ensures the satisfaction of safety and functional thermal hydraulic requirements during the testing/commissioning phases with proper risk analysis and mitigation actions.
	Project Construction Phase

Applicant criteria

Level of study	Master or equivalent degree
Diploma	Mechanical or Nuclear Engineering or equivalent
Level of experience	At least 5 years
Technical experience/knowledge	<ul style="list-style-type: none"> -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.
	<ul style="list-style-type: none"> -At least 5 years' experience of testing and commissioning of cooling systems for large Industrial Plants and/or Nuclear Plants or Facilities; -First experience in the Engineering of complex Industrial Projects as systems; -First experience in the design or construction of cooling systems for Industrial Plants and/or Nuclear Plants or Facilities; in terms of testing and commissioning; -Basic Project Management experience is appreciated.
Social skills	Ability to work effectively in a multi-cultural environment , Ability to work in a team and to promote team spirit
General skills	- Excellent knowledge in CAD Tools (AVEVA / PDMS, CATIA and See Visio) to generate 2D Drawings and 3D Models is highly appreciated.
Languages	English (Fluent)
Specific skills	CATIA, MS Office standard (Word, Excel, PowerPoint, Outlook)

IO1835 Hot Cell Engineer - PED-016&109

General information

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

Job description

Main job	Engineering - Nuclear Power
Title of the position	Hot Cell Engineer - PED-016&109
Job family	Coordinating Technician
Grade	G5
Direct employment	Required
	Two vacancies
Purpose	To contribute to the design, integration, safety, assembly, installation, commissioning and operation of ITER, including the Remote Handling, Hot Cell and Radwaste Systems. -Finalizes technical design issues with respect to Remote Handling, Hot Cell and Radwaste designs, include confinement and shielding doors, cranes, trolleys, ventilation, etc.; -Provides support to the interface of ITER with the French Authorities and with the French Disposal Facilities to which all ITER Radwaste will eventually be transported; -Supports the licensing activities in close collaboration with the Safety Department; -Establishes and updates the required documentation for baseline and the design, interfaces, procurement, assembly, commissioning and operation ; -Supports the required safety documentation and operating procedures for the Remote Handling, Hot Cell and Radwaste Treatment and Storage system in the Hot Cell & Radwaste facilities in close collaboration with the involved interfaces;
Main duties / Responsibilities	-Performs other duties in support of the project schedule; -May be requested to be part of any of the project/construction teams and to perform other duties; -Maintains a strong commitment to the implementation and perpetuation of the ITER Safety Program, values and ethics. -Reports to Hot Cell & Radwaste Section Leader; -In response to requests from the Director-General or Plant Engineering Department Head, or proactively, informs the Director-General or Plant Engineering Department Head 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. -Completes the design activities and procurement in a timely manner and within the defined cost; -Enhances the system performance or reduce the system costs while keeping the technical and safety requirements;
Measures of effectiveness	-Provides efficient and timely support for all above described documentation related to the Remote Handling and Radioactive Materials Division activities. Project Construction Phase SAP ID : 50000658-1014

Applicant criteria

Level of study	Bachelor or equivalent degree
Diploma	Nuclear engineering field or other
Level of experience	At least 7 years -Bachelor's degree or equivalent in a nuclear engineering field or other relevant discipline, e.g. remote handling, tritium handling, radwaste, hot cells, etc.

Technical experience/knowledge	<ul style="list-style-type: none"> -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 7 years of experience in the field of nuclear engineering, mechanical, process, radiation protection, remote handling, radwaste fields; -Experience in the integration and procurement of large and complex systems and facilities, if possible within an international environment. -Good experience in complex and multidisciplinary projects.
Social skills	Ability to work effectively in a multi-cultural environment , Ability to work in a team and to promote team spirit
General skills	<ul style="list-style-type: none"> -Knowledge of MS Office standard (Word, Excel, PowerPoint, Outlook) is required; -Design experience with CATIA and/or AVEVA is highly required
Languages	English (Fluent)
Specific skills	CATIA, MS Office standard (Word, Excel, PowerPoint, Outlook)