

# IO1957 Structural In-Field Engineer - PED-162

## General information

Job category	Standard
Status	Published
Department	PED / Plant Engineering Department
Division	PED / Field Engineering Installation Division

## Job description

Main job	Engineering - Nuclear Power
Title of the position	Structural In-Field Engineer - PED-162
Job family	Engineer - 2
Grade	P3
Direct employment	Not required
Purpose	<p>To perform structural analysis for structures, systems and components developing technical solution in support of construction activities under the mission of Plant Engineering Department (PED) / Field Engineering Installation Division (FEID)- Construction Teams for Plant Installation (CTPI);</p> <p>To assure resolution of in field design changes during construction phase according to Safety and Quality Assurance (QA) rules providing resolution of the technical issues to support the construction activities in compliance with the time schedule;</p> <p>To assure that the interfaces between piping systems and civil structures are correctly defined and implemented during and prior construction phase;</p> <p>To review and provide support for the issuance of the Engineer Work Packages.</p>
Main duties / Responsibilities	<ul style="list-style-type: none"><li>-Assures the resolution of in-field design changes (Non-Conformance Reports (NCR), Deviation Requests, etc..) generated during construction activities and promote their resolution in due time satisfying Safety and Quality Assurance rules as well as space management integration requirements through the Central Integration Office (CIO) supervision;</li><li>-Undertakes on-site oversight activities to ensure that construction activities are carried out in accordance with approved designs and supervision plan;</li><li>-Checks technically the analysis and associated calculation reports for structures and components subject to modification;</li><li>-Produces assessment reports to support and justify the proposed field design changes, during and prior construction works;</li><li>-Produces the so called red line drawings for the resolution of the in-field changes;</li><li>-Supports fully the Team Leader in other tasks related to construction, participating in task forces or working groups;</li><li>-Re-Assesses the capacity of the embedded plates, including post drilled plates, resulting from system final design or field design changes in collaboration with CIO and/or Building TROs.</li><li>-Ensures full traceability of activities from design through to as-built records;</li><li>-May be required to work outside ITER Organization reference working hours, including nights, weekends and public holidays;</li><li>-May be requested to be part of any of the project/construction teams and to perform other duties in support of the project schedule;</li><li>-Maintains a strong commitment to the implementation and perpetuation of the ITER Safety Program, values and ethics.</li></ul>
Measures of effectiveness	<ul style="list-style-type: none"><li>-Under the supervision of the Group Leader, reports to the Field Engineering Installation Division Head;</li><li>-Acts as an interface with all other Departments for what concerns the design modification of structures and components;</li><li>-In response to requests from the Director-General and/ Head of Plant Engineering Department (PED), or proactively, informs the DG/ Head of PED 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.</li></ul> <p>-Performs the calculation reports of the structures and components in a timely manner;</p> <p>-Supports efficiently design and installation activities;</p>

- Provide in timely manner the resolution of the NCR and in-field changes;
- Contributes to cost saving and improvement of work efficiency;
- Support Engineering Department to issue the Engineering Work Packages;
- Manages effectively the interfaces associated with his/her scope of activities.

Project Construction Phase

## Applicant criteria

Level of study	Master or equivalent degree
Diploma	Nuclear / Mechanical or Civil Engineering
Level of experience	At least 8 years
Technical experience/knowledge	<ul style="list-style-type: none"> <li>-Good knowledge in designing structures, systems and components (including embedded plates);</li> <li>-Excellent knowledge of structural design codes such AISC, Eurocode, ASCE, mechanical design codes such as ASME III related chapters and/or RCC and other international Codes &amp; Standard for piping systems.</li> <li>-At least 8 years of experience in the field of Nuclear / Mechanical/Civil Engineering with a strong level of competence in both design and construction oversight within a nuclear environment;</li> <li>-Experience in management of in-field design changes generated during installation activities and field installation supervision for plan systems;</li> <li>-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.</li> </ul>
Social skills	<p>Ability to work effectively in a multi-cultural environment , Ability to work in a team and to promote team spirit</p> <ul style="list-style-type: none"> <li>-Good knowledge of Quality Assurance/Quality Control procedures for the installation, of safety / safety related mechanical components and piping systems;</li> <li>-Experience of Design within the framework of the specific French Nuclear Safety regulations;</li> <li>-Good Project Management experience is preferred.</li> </ul>
General skills	<ul style="list-style-type: none"> <li>-Standard Knowledge of GT Strudl, Staad Pro, ANSYS, SAP 2000 or similar software;</li> <li>-Good knowledge of Finite Element Method analysis and theory;</li> <li>-Good knowledge of 2D-3D CAD software (AVEVA PDMS and Catia) or similar software;</li> <li>-Experience working with Microsoft Office suite of programs.</li> </ul>
Languages	English (Fluent)
Specific skills	<p>Ansys, CATIA, MS Office standard (Word, Excel, PowerPoint, Outlook), SAP</p> <ul style="list-style-type: none"> <li>-Highly proactive and autonomous personality;</li> <li>-Ability to work effectively in a multi-cultural environment;</li> <li>-Ability to make decisions under stressful circumstances;</li> </ul>
Others	<ul style="list-style-type: none"> <li>-Ability to facilitate dialogue with a wide variety of contributors and stakeholders;</li> <li>-Ability to adjust communication content and style to deliver messages;</li> <li>-Ability to persist in the face of challenges to meet deadlines with high standards;</li> <li>-Ability to model high standards of team mindset, trust, excellence, loyalty and integrity.</li> </ul>