

# IO1189 Electrical Engineer in Neutral Beam Tech. CHD-014

## General information

Job category	Standard
Status	Published
Department	DIP/Directorate for CODAC, Heating & Diagnostics
Division	CHD / Diagnostics Division
Section	CHD / HCD / Neutral Beam Section

## Job description

Main job	Engineering - Electricity
Title of the position	Electrical Engineer in Neutral Beam Tech. CHD-014
Job family	System Engineer - 2
Grade	P4
Direct employment	Not required
Purpose	<p>To oversee and manage the design, bidding, manufacture, testing and integration of the Neutral Beam (NB) Power Supply (PS).</p> <p>To support the design of the power supplies and of components relevant to the PS for the NB system.</p> <p>To act as liaison between various DAs involved in the procurement activities of NB PS.</p>
Main duties / Responsibilities	<p>Assures the design of the NB PS, which are function specification, in order to ensure that the function and operation is assured for the Heating Neutral Beam (HNB) Diagnostic Neutral Beam (DNB) systems and Neutral Beam Test Facility (NBTF);</p> <p>Manages the design and integration specifically the interfaces of components relevant to the Power supplies;</p> <p>Assists the Domestic Agencies ( DAs) and manufacturer in the definition of the interfaces;</p> <p>Participates in the factory test by following the manufacturing phase of the power supplies with the DAs;</p> <p>Carries out the onsite tests on arrival of the components on the ITER site and NBTF site;</p> <p>Ensures integration of the power supply relevant components into the Tokamak building and the power supply building;</p> <p>Ensures the procurement schedule is met and that the assembly of the power supplies and their acceptance tests are defined;</p> <p>Oversees the task agreements for the PS of the HNB and DNB and assess the impact on the overall design;</p> <p>Performs other duties in support of the project schedule as described in the Detailed Work Schedule and the 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>Monitors the task agreements for the PS of the HNB and DNB and assess the impact on the overall design;</p> <p>Manages the design and integration specifically the interfaces of components relevant to the Power supplies, for example the transmission line and its support structures;</p> <p>Assures integration of the power supply relevant components into the Tokamak building and the power supply building.</p> <p>Reports to Neutral Beam section leader;</p> <p>Acts as an interface between the relevant DAs and the IO NB team</p> <p>In response to requests from the Director-General and/or Director of CODAC, Heating &amp; Diagnostics, or proactively, informs the DG/ Director of CODAC, Heating &amp; Diagnostics 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>SAP ID: 5-307</p>

Applicant criteria

Level of study	At least Master's Degree or equivalent
Diploma	electrical/electronic engineering or similar
Level of experience	At least 10 years
Technical experience	Expertise in electrical engineering with 5 years' experience in the high voltage engineering; Experience in electric field stress analysis an advantage; Experience in the design of High Voltage systems is preferable; Understanding of the neutral beam system; Experience in technical design relevant to the ITER environment, eg Remote handling and radiation compatibility.
Project experience	4 to 5 years
Social skills	Ability to work effectively in a multi-cultural environment , Ability to work in a team and to promote team spirit, Ability to communicate effectively
General skills	Basic Project Management experience is required.
Languages	English (Working)
Specific skills	Ansys
Free criteria	Proficiency of MATLAB