

IO1997 Computing Centre Officer CIO-168

General information

Job category	Standard
Status	Published
Department	CIO/ Central Integration Office
Division	CIO / Information Technology Division
Section	CIO / IT / IT System & Operation Section

Job description

Main job	Computer Science - Database management
Title of the position	Computing Centre Officer CIO-168
Job family	Functional Officer - 2
Grade	P3
Direct employment	Not required
Purpose	<p>To be responsible for the data centers including the High Performance Computing (HPC) facilities of the ITER Information Technology Division. To design and implement the new evolution of the HPC computer cluster and to prepare plans for the future analysis center of the ITER scientific data center. To manage the operation of the current data centers and HPC and organize the user support.</p>
Main duties / Responsibilities	<p>Operates and improves the current ITER IT data centers (2 redundant and 1 external node); Manages activities concerning the current HPC center (2500 cores, 200 users, 25TB of data); Designs and implements a significant upgrade of the current HPC center; Plans the future analysis center including the schedule, cost and risks; Ensures smooth integration of the HPC into the current IT landscape (authentication, backup, etc.)</p> <p>Gathers user requirements and develops specifications firstly for the HPC center for simulations and then for the analysis center for scientific data; Liaises with users of the facility and provides documentation, guidance, and training; Collaborates and supports the Control System Division, the scientific and analysis groups at ITER regarding their work connected with data centers, the HPC cluster, and central storage and data dissemination; Coordinates data center related service desk activities; Might be asked to participate in the IT on-call service; May be requested to be support any of the project/construction teams and to perform other duties in support of the project schedule; 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 Information Technology System and Operation Section Leader; Acts as an interface between the IT Division and other groups at ITER ; In response to requests from the Director-General and/or Central Integration Office (CIO) Head, or proactively, informs the DG/ CIO 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.</p> <p>Designs, implements and operates efficiently the ITER HPC center within defined quality and schedule; Provides efficiently guidance and documentation to users; Successfully gathers requirements from users in particular from the Control System Division and the Science Division; Designs the future scientific data center and execute the project to specification, budget and schedule.</p> <p>Project Construction Phase</p>

Applicant criteria

Technical experience/knowledge	Level of study	Master or equivalent degree
	Diploma	Computing or other relevant discipline
	Level of experience	At least 8 years
		<p>At least 8 years' experience in managing similar size of computing center as the one above described;</p> <p>Strong experience in designing and building HPC and in IT Service Delivery;</p> <p>Experience in operating HPC centers (user management, queue management, job scheduling, fair sharing, quota management, etc.) in a complex environment;</p> <p>Experience with various Linux distributions, different distributed file systems, low latency network;</p> <p>Project Management experience is required and a certification in Prince 2 (or equivalent) would be an advantage;</p> <p>Experience with professional cluster management tools (SGE, Torque/Mau, Slurm) and configuration management (Puppet, RedHat Satellite) is valuable;</p> <p>Experience managing teams and/or contracts in an international scientific or engineering context would be an advantage.</p>
	Social skills	<p>Ability to work effectively in a multi-cultural environment , Ability to work in a team and to promote team spirit</p> <p>A Master's degree in physics with a strong emphasis on computing is also considered as an acceptable diploma;</p>
	General skills	<p>Linux certification (RedHat) is a strong advantage;</p> <p>Knowledge of data center design and operation;</p> <p>Knowledge of high performance scientific computing;</p> <p>Knowledge of data analysis and scientific algorithms would be an advantage;</p> <p>Knowledge in Linux would be an advantage;</p>
	Languages	English (Fluent)
	Others	<p>Ability to facilitate dialogue with a wide variety of contributors and stakeholders;</p> <p>Ability to adjust communication content and style to deliver messages;</p> <p>Ability to persist in the face of challenges to meet deadlines with high standards;</p> <p>Ability to apply high standards of team mind set, trust, excellence, loyalty and integrity.</p>