

## Job Description

### Engineer – OT Networks and Security

<b>Role Description (purpose):</b>					
<ul style="list-style-type: none"> <li>Responsible for the field of Operational Technology Networks and Security in interactions with key stakeholders (operating lines, Corporate entities, consultants and external bodies, etc.) and other Carnival Corporate Shipbuilding disciplines and departments.</li> <li>Providing and applying management and technical expertise in industrial control systems, to the specification, design, construction and conversion of passenger vessels and to the operation of the existing fleet.</li> <li>Providing expertise in the design, selection and testing of industrial control equipment for all ships under construction and in the fleet.</li> </ul>					
<b>RUI:</b> (if updating existing JD)		<b>Grade:</b>	7	<b>DBS check required Y/N:</b>	N
<b>Directorate:</b> (Operating Company where Applicable)	Carnival Corporate Shipbuilding		<b>Reports to:</b>	Principal Manager – System Integration	
<b>Function:</b>	Technical		<b>Team:</b>	Electrical, Automation & Safety	
<b>Direct reports:</b> <b>Job Titles &amp; Level</b>			Nil		
<b>Accountabilities:</b>					
<ul style="list-style-type: none"> <li>Managing the industrial control system design development and evaluation of equipment specifications, to ensure that all statutory and Company safety and operational standards and requirements are observed throughout. This includes maintaining contact and liaising with the relevant departments of the Carnival Group operating companies.</li> <li>Responsible for design development related to the discipline.</li> <li>Responsible for plan approval of the discipline and responsible for selected plan approval topics ensuring that the review of specifications, drawings, diagrams and other technical submissions are in accordance with the established procedures.</li> <li>Responsible for engaging with other recognised industry experts to understand the latest developments in the discipline, and to consider how these may be applied to Carnival Corporate Shipbuilding; including in particular matters of cyber security. Influencing corporate entities in the application of these technical developments and best practice in the discipline.</li> <li>Contribute to technical discussions for the discipline, and is an active player in negotiations with Builders and Suppliers for the discipline.</li> <li>Contribute to the discipline’s participation in corporate working groups and R&amp;D activities.</li> <li>Influencing the development of new regulations and technologies related to the discipline by attending industry meetings with regulators, suppliers and operators.</li> <li>Contribute to the technical review- and, selection / approval of Makers/Suppliers related to the discipline.</li> <li>Contribute to develop and agree with the shipyards and the Commissioning Manager/Project Managers, procedures and schedules for the inspection and testing of Industrial control systems, and subsequent protection against damage and misuse.</li> <li>Contribute to continuous update of the specifications of the vessels under construction or conversion to ensure that accurate records of all changes are maintained and that on delivery or re-delivery of the vessels an “as fitted” specification is available.</li> <li>Responsible for the continuous review of all relevant legislation and Company regulations whether in force, coming into force or under consideration that could affect the design development of the vessels under design, construction or conversion.</li> </ul>					

**Health, Environment, Safety, Security (HESS) Responsibilities:**

- Lead by example by taking care of the health and safety of you and others.
- Report all accidents, 'near miss' incidents and work related ill health conditions to your manager/supervisor/team leader.
- Follow safety rules and procedures.
- Use work equipment, personal protective equipment, substances, and safety devices correctly
- Take part in safety training & risk assessments and suggest ways of reducing risks.
- Actively promote safe working and encourage safe behaviours.
- Demonstrate safety leadership in accordance with our safety leadership behaviours.

**General Responsibilities:**

- Adheres to Corporate Policies and Procedures, including Code of Conduct, Audit Procedures and any control related responsibility for financial data entered, stored, or reported via business systems within employee's control (list not exhaustive).
- To undertake ad hoc duties as required.

**Scope:****Problem solving:**

- Responsible for identifying, innovating and implementing the safest, effective and efficient solutions within the discipline ensuring a consistent technical approach throughout group newbuilds.
- Responsible for resolving escalated technical issues in relation to discipline and their interaction with wider technical disciplines
- Identifying risk mitigation measures aimed at safeguarding the value of the discipline related systems and negotiating their inclusion within the Contractual Technical Specification before the contract is signed.

**Impact (what impact will the role holder have on the team/ department/ function/ stakeholders):**

- Acting as the technical point of reference within the technical team of Carnival Corporate Shipbuilding in relation to the OT Networks and Security discipline.
- Promotion of best practise in the discipline and related technical systems
- To be clear on latest developments within the discipline and project areas
- Proposing how the discipline participates in external/wider corporate activities and the provision of internal consultancy services.
- Providing direction to ensure that the discipline needs, lessons learnt & concerns are incorporated, documented & reflected onto all future generation new builds.

**Leadership (what level of management is required, ie multiple teams, or small teams) :**

- Developing.

**Demonstrable Behaviours (what needs to be demonstrated in 'how' to be successful in the role) :**

- Willingness to work/relate to and communicate with senior managers across the organisation.
- A positive attitude to developing and improving the way things are done, working in collaboration with others.
- Ability to influence others, particularly in technical and commercial arguments and utilising negotiation skills as necessary.
- Ability to communicate effectively with different people, different levels and different organisations.
- Driving a culture of continuous improvement within own work and the work of others. Ability to contribute to the development of behaviours, processes and standards to drive continual improvement.
- Excellent accuracy / attention to detail in all aspects of work.
- Willingness to travel and work additional hours and weekends as needed.

<b>Knowledge, Experience and Qualifications required:</b>				
<b>Qualifications – essential:</b> <ul style="list-style-type: none"> <li>Degree in Computer Science, Electrical Engineering or associated discipline.</li> </ul> or <ul style="list-style-type: none"> <li>Demonstrable knowledge and experience in substantive technical position directly related to industrial control/IT systems.</li> </ul>		<b>Qualifications – desirable:</b> <ul style="list-style-type: none"> <li>MSc, MEng or MBA desirable</li> <li>Chartered Engineer Status</li> </ul>		
<b>Knowledge/ Experience – essential:</b> <ul style="list-style-type: none"> <li>5 years experience in industrial control/IT and cyber security.</li> <li>Specific experience of the design and implementation of industrial control systems and OT/IT equipment.</li> </ul>		<b>Knowledge/ Experience – desirable:</b> <ul style="list-style-type: none"> <li>Experience in the cruise and shipbuilding industry.</li> </ul>		
<b>Issue Date:</b>		<b>Issued by (name):</b>		Jim Watson
<b>REWARD ONLY</b>	<b>Grade:</b>	<b>RUI:</b>	<b>Date Approved:</b>	<b>Initials:</b>