



OceanWorks International in Burnaby, Canada, has an immediate opening for a **Systems Engineer – Military**.

OceanWorks International is a privately held subsea technology company that specializes in manned and unmanned subsea work systems and engineering/fabrication services for key international marine industries including International Military, Scientific, Oil & Gas, and Renewable Energy markets. Our Burnaby operation is focused on the design, assembly and testing of subsea technical solutions.

BASIC JOB DESCRIPTION:

Systems Engineering has overall responsibility for developing and cascading the system design requirements and proposed solution to meet both specific customer and trending business line requirements. The Systems Engineering group is responsible for the recommendation of and execution of the project management of the engineering work from initiation through to manufacturing, testing, and commissioning based on discussion and agreement from the Project Manager.

The Systems Engineer is the primary technical point of contact for the customer. Systems engineers work closely with Project Management, leading the technical team who contribute to the design and construction of components and systems. The role of the systems engineer is also a liaison between the Sales, Manufacturing, the Project Manager and the other engineering disciplines that may be involved in a project.

MAJOR RESPONSIBILITIES:

- Subject matter expert in subsea military market requirements
- Attends technical conferences, industry standards meetings to develop deeper understanding of business line requirements, trends, and best practices
- Assists the Sales Team in preparation of estimates and project proposals
- Develops and cascades customer and market requirements into system and component design requirements ensuring consistency between projects within the business line
- While on a specific project, the Systems Engineer reports to the assigned Project Manager
- Develops system engineering deliverables including concept designs, concept of operations, FMECAs, Execution plans, ICDs, System Requirements, engineering schedules
- Assesses, reports, and manages project technical, cost, and schedule risk and mitigation for the duration of the project
- Leads FME(C)A and ensures that they are maintained for military market segment
- Oversees the preparation of cost effective materials and equipment and prepares specifications for material, equipment, fabrication and installation work
- Prepares, manages, and reports on engineering schedules, plans, and resource forecasts including the selection of hold points and design freeze points for engineering activities relating to the project in a consistent and trackable format

- Responsible to develop the design verification & validation test plan requirements for the compliance matrix
- Develops engineering Work Breakdown Structure to be in compliance with applicable codes, accepted engineering practices, and OceanWorks standard works, policies, and procedures
- Ensures effective communication and coordination on assigned projects between multiple engineering disciplines and all other project participants
- Has sufficient technical knowledge and awareness of engineering details to be able to recognize when technical problems are developing in the various disciplines, and to initiate appropriate corrective actions
- Ensures that designs, engineering documentation, and design review packages and deliverables are complete, accurate, cost effective, manufacturable, and will meet customer and company requirements
- Maintains project documentation with respect to engineering studies, analyses, and design packages
- Mentors and provides guidance to developing engineers on the project
- May supervise additional systems engineers or temporary lead project engineers as business lines expand
- Participates in customer and vendor meetings and resolves customer and vendor engineering and management project issues
- Ensures lessons learned from other projects within the market are captured in related FMECA and standard works to ensure consistency in approach and quality
- Develops standard design building blocks to be leveraged across projects within the business line.
- Perform other duties as may be assigned

WORKING CONDITIONS:

- Offsite and/or offshore work on occasion

QUALIFICATIONS / REQUIREMENTS:

Leadership Competencies:

- Directing others on the project team
- Good written and verbal communication skills
- Interpersonal relationship building
- Conflict resolution
- Trustworthy & Confident
- Motivating others
- Organizing & Planning
- Priority Setting
- Building effective, high performance teams
- Thorough practical understanding of configuration, change management, and design processes

Education:

- Bachelor degree in systems, electro-mechanical, mechanical engineering or equivalent demonstrated competency
- Registered Professional Engineer

Required Training/Experience:

- 2 years of experience as a project engineer with proven experience of successfully completing projects on schedule and on budget.
- 5 years manned and unmanned submersible experience is required
- 10 years of design experience, preferably on projects within the military subsea market
- Mechanical or Electro-Mechanical background
- Proven experience with configuration management and project lifecycle processes
- Demonstrated experience in design, qualification testing and commissioning of high reliability systems
- Experience in project engineering, system engineering, work breakdown structure and application of standard engineering practices to ensure conformance with functional specifications and project requirements
- Experience with AutoCad, CREO
- Military experience is an asset but not required
- Subsea Operational experience is an asset

Required Knowledge, Skills and Abilities:

- Knowledge of and demonstrated experience in applicable business line best practices and regulatory standards
- Knowledge of military systems acquisition process
- Knowledge of office software tools (e.g. Word, Excel, Outlook)
- Strong communication skills, written and verbal
- Strong interpersonal skills
- Multitasking skills
- Ability to establish and maintain effective working relationships
- Ability to prioritize tasks

Other:

- Willingness to travel and work internationally up to 20% of the time for customer reviews, installation, commissioning, testing, customer support or duties as required
- Willingness to work overtime when required

Security Clearance:

Employees must be able to work in an environment governed by the Controlled Goods Program of Canada, and therefore a criminal record check may be required for all new employees. Information can be provided upon request.

If this opportunity appeals to you, then please send your cover letter and resume to us. Please quote "Systems Engineer - Military" in the email subject line. Please outline in your cover letter how your knowledge, skills and experience match the requirements of this position and please let us know the reasons for your interest in working at Oceanworks.

We thank all candidates for their interest; however, only candidates selected for an interview will be contacted. We politely request no telephone calls please.

OceanWorks offers a competitive compensation package with an excellent benefits package. Our team is made up of self-motivated, innovative individuals who thrive on challenge. We are always looking for talented, success-oriented people to join our team. We embrace an open work environment where you can express your ideas. We cultivate teamwork and cooperation. If you are creative and would like to join our team, we would love to hear from you.

If you would like to receive more information about our company, please visit our website at www.oceanworks.com.