



SeaStar Solutions

Job Title:	Test Engineer
Job Purpose:	This position requires a hands-on approach to support the development of boat control and heavy duty transportation heating products and components. Design and Develop effective test methods and equipment; perform root-cause analysis for new products.
Reports To:	Engineering Manager
Direct Reports:	N/A
Version:	2.0 April 1, 2014

Education & Experience

- University or Institute qualifications in Mechanical, or Electro-Mechanical Engineering.
- Previous experience with Pro Engineer/Creo or SolidWorks is an asset.

Responsibilities

- Prepare reports on the status of tests and analysis of results to the new product launch teams. Ensure data is trustworthy.
- Develop new product performance specifications and test methods.
- Ensure continuous operation of test equipment, modify as required.
- Develop and run validation programs based on the needs of the design engineers.
- Prepare and calibrate data acquisition equipment.
- Correlate field data to lab tests and lab test data. Complete data analysis.
- Monitor and record multiple tests simultaneously.
- Perform root cause analysis on tested units.
- Prepare reports on completed and in-progress testing.
- Implement improvements to product testing (processes, methods, analysis, etc.).
- Assist in the design and implementation of multi-variable experiments.
- Assist in the selection, installation and integration of sensors (pressure, force, strain gauges, displacement, etc.).
- Complete additional job duties and assignments up to 15% of the time.



Skills & Abilities

- Strong problem solving and decision making abilities.
- Well-developed organizational skills with the ability to manage a variety of tasks.
- Strong proficiency with MS Office programs including: Word, Excel, Access, Outlook, PowerPoint; and, the ability to learn other applications quickly.
- Strong statistical and mathematical analysis skills.
- Strong mechanical and electrical aptitude.
- Previous experience with Lab View and NI data acquisition equipment.
- Knowledgeable of governing standards regarding test procedures and equipment for ASTM, SAE, ISO and ABYC.
- Proficient with electronic instrumentation, test equipment, accelerated testing, ladder logic, vibration testing and PSD spectrums.
- Comprehensive knowledge of various materials and secondary coatings.
- Familiar with volume production processes including casting, extrusions, powder metal, injection molding, precision machining sheet metal fabrication, and welding.
- Excellent verbal and written communication skills in English.
- Ability to work well independently and as part of a strong team.

Deliverables

- Develop comprehensive verification and validation plans for new product development.
- Implement effective and efficient test methods to verify and validate plans to ensure the test program is performed relative to the product launch schedule.
- Perform failure analysis and explain conclusions and recommendations to the Product Designers.
- Write thorough test reports, including complete data analysis.

Things to Know & How to Apply?

- Occasional travel maybe required.
- SeaStar Solutions is an equal opportunity employer.
- If you are interested in this position, please send your cover letter and resume to hr.canada@seastarsolutions.com with the subject: 2018-016.
- Relocation assistance is not provided for this role.
- Only applicants legally eligible to work in Canada should apply. No foreign applicants will be sponsored.
- We look at each resume in detail, so please be sure to review the job description and highlight your experience in relation to this role.



- All candidates will be updated on the status of their application.

To find out more about SeaStar Solutions, please visit our company website at:
www.seastarsolutions.com or <http://canada.seastarsolutions.com/careers/>