General Dynamics Electric Boat
Engineer - Materials

Overview
Welding Engineering Services is involved in all aspects of submarine design and construction.

Construction support team member will be responsible for:

- Disposition Engineering Reports, Welding Engineering Instructions, and Trade Unsats related to welding.
- Shipyard support for both day-to-day and global welding issue adjudication.
- Provide technical guidance and expertise on welding related issues to multifaceted teams involving structures, components, and piping/mechanical systems including supporting engineering in development of technical rationale to resolve non-compliances for life of ship.
- Investigate and evaluate new mechanized, automated, robotic welding equipment and provide production support as needed.
- Serve as project lead or technical lead on both in-house and externally funded development and process improvement/cost reduction tasks including welding equipment.
- Interface with Electric Boat Engineering, Operations, Information Technology, Training departments as well as SUPSHIP Groton, NRRO, Naval Reactors, and NAVSEA as required.
- Interpret fabrication, welding, non-destructive testing, and consumable specifications, both military and commercial as required.
- Develop and maintain company standards, procedures, and best practices in the areas of welding.

Qualifications
Required:
- Bachelor of Science or higher in Welding Engineering, Mechanical Engineering, Metallurgy/Metallurgical Engineering or Material Engineering (focus on metals as opposed to non-metallics) or equivalent
- Less than 15 years relevant experience

Preferred:
- Experience in an industrial environment, shipbuilding, or other heavy fabrication, though not required would be beneficial
- Familiarity or experience with basic arc welding processes
- Engineering experience in the design or support of structural or piping applications and the ability to read and understand drawings is desired (ASME Y14 Standards)
- Familiarity with Military, ASME, and ASW welding specifications
- Familiarity with NAVSEA Technical Publications:
  - T9074-AD-GIB-010/1688
  - T9074-AR-GIB-010/278
  - S9074-AQ-GIB-010/248

Skills
- Highly motivated and well organized with strong project management skills, attention to detail, and be capable of working both independently and in a team environment
- Ability to read, write, and interpret specifications, procedures, reports, and other documents;
- Ability to work well on a team
• Comfortable working and communicating with all levels of management
• Ability to write and speak clearly and possess basic computer skills, preferably including use of Microsoft Word, Excel, Access, and Power Point.
• Interpersonal and communication skills necessary to investigate problems by effectively asking questions, extracting necessary data from available sources, and working with others to determine root causes and implement appropriate solutions.
• Ability to understand basic principles of welding metallurgy and use this to explain/understand weld metal mechanical properties performance, issues with cracking, and other material related problems and issues.

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