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**APPLICATIONS ENGINEER**

**DEPARTMENT:** Engineering  
**ACCOUNTABLE TO:** Manager, Technical Operations  
**LOCATION:** Trooper, PA

**JOB SUMMARY**

The Applications Engineer generates competitive proposals for the purposes of obtaining orders for water treatment systems. They determine the design and the costs required to execute the project to the contractual requirements. An Applications Engineer usually works on 4-6 projects concurrently with a typical project taking between several hours and several weeks to complete.

**DUTIES AND RESPONSIBILITIES**

- Reviewing customer inquiries and specifications for assigned deaerator or other water treatment equipment;
- Determining feasibility/suitability of the design and related equipment while balancing the technical and commercial pros and cons of the various treatment options;
- Providing preliminary mechanical engineering design to determine form, fit and function of product based on engineering knowledge as well as customer specifications;
- Performing calculations for system design which may include heat balance, media loading, static and dynamic loadings, ASME code calculations and other related work;
- Creating vendor inquiry packages to obtain project related pricing;
- Preparing preliminary and final cost estimates using internal cost estimating tools and vendor quotations;
- Managing bid submissions to the sales team, ensuring cost accuracy and full compliance with contractual requirements at the lowest possible cost;
- Liaising between various departments including engineering, project management, purchasing and production for technical assistance in developing concepts and processes and project order handoff;
- Providing prompt, appropriate, and accurate responses to internal and external customers;
- Responsible for performing duties in a safe manner and promoting safety to others in accordance with Newterra's safety policies and procedures;
- Responsible to report all safety concerns, near misses and incidents to their Manager immediately;
- Maintain a clean, orderly and safe workspace;
- Adhere to the company processes as detailed in Newterra's Business Management System and bring forward ideas for continuous improvement;
- Perform other related duties as required.

**Experience and Skills Required**

- Engineering Degree is preferred
- Understand mechanics of steam generation
- Knowledge of deaerators, heat transfer and heat balance
- Experience in boiler system design or knowledge of ASME code for unfired pressure vessels preferred
- Ability to work collaboratively with others to achieve a common goal
- Self-motivated with a positive attitude
- Good written and oral communication skills
- Organizational and leadership abilities
- Computer skills in Microsoft office
- Problem-solving skills

NOTE 1: This is a CONTROLLED Document as are all quality system files on the server. Any documents appearing in paper form are not controlled and should be checked against the Business Management System located on the server for the latest revision.

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**\*\*Candidates must be legally entitled to work in USA\*\***

All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, disability or protected veteran status. If you require accommodation due to a disability at any time during the recruitment and/or assessment process, please contact Human Resources and we will make all reasonable efforts to accommodate your request.

*We sincerely thank all applicants for their interest but will only contact those under consideration.*

Job Type: Full-time