

Job Description		Procedure No.	xxx.JD.xxx
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Senior Process Engineer

DEPARTMENT: Engineering – Aeration Industries International

LOCATION: CHASKA, MN

ACCOUNTABLE TO:

JOB SUMMARY

The person in this position will undertake challenging and progressive work focused on wastewater treatment technologies that fit Newterra / Aeration Industries' solution portfolio. This candidate will also have a role in day-to-day client service and business development. Responsibilities may include working as an individual or leading cross functional team to develop and implement wastewater treatment products and solutions. This person will also assist our sales team to address customers' current and future treatment needs.

RESPONSIBILITIES/DAILY TASKS

- Provide direct engineering design support for: Process technology development and implementations, including but not limited to modular treatment systems, DAF, SBR etc.
- Design wastewater treatment equipment and processes, and carry out the preliminary and detailed engineering of various product and process development projects
- Develop specifications and drawings such as process flow diagrams (PFDs) and process & instrumentation diagrams (P&IDs) for drafting technicians
- Write functional descriptions for process control to ensure equipment and system efficiency and safety
- Ensure that all aspects of a process design comply with applicable regulations
- Preparation of technical reports, specs, design manuals
- Provide hands-on technical guidance and mentorship to engineers in delivering ongoing projects
- Support and participate in sales activities for design reviews, field verification of designs, proposal presentations, and other business development activities
- Support and participate in start-up, operation, problem solving and troubleshooting of existing and new projects
- Responsible for performing duties in a safe manner and promoting safety to others in accordance with Newterra's safety policies and procedures. This includes reporting all safety concerns, near-misses and incidents to their Manager
- Adhere to the company processes as detailed in Newterra's Business Management System (BMS) and bring forward ideas for continuous improvement
- Responsible for completing all assigned training applicable to your position in the applicable timeframe.
- Complete all responsibilities while ensuring adherence to Newterra's Delegation of Authority.

QUALIFICATIONS

- At least 10 years' engineering experience in some or most of the following technical areas:
 - Wastewater treatment process design
 - Biological nutrient removal
 - Modular treatment system
 - DAF
 - Pilot testing

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.

Printed copies are for reference only.

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- Process modeling with BioWin or GPS-x
 - Advanced oxidation
- A bachelor or master's degree in Civil or Environmental Engineering
 - Professional Engineer registration in Minnesota or other Midwest state(s) or ability to complete registration within 6 months of hiring is required
 - Exposure to work in a laboratory setting including bench-scale testing and wastewater analysis
 - Exposure to treatment plant operations
 - Solid technical writing skills, including an attention to detail, accuracy, and completeness.
 - Excellent collaboration skills.
 - Critical thinking and problem-solving skills

OTHER DUTIES

Please note this job description is not designed to cover or contain a comprehensive listing of duties, responsibilities, or activities that are required of the employee for this job. Duties, responsibilities, and activities may change at any time with or without notice.

HISTORY

Rev	DD/MM/YY	Description	Approved By
0		Initial release	