

## **Chemical/Water Process Engineer**

AVANTech Incorporated, a rapidly growing technology company that provides water treatment products and services to commercial and government nuclear facilities and for specialized industrial applications, is seeking a **Chemical/Water Process Engineer** interested in joining our team. The selected candidate will be involved with all aspects of a project from concept through commissioning and operation.

The successful candidate would benefit from understanding the following technologies: ion exchange, reverse osmosis, membrane filtration (UF and MF), oxidation (O<sub>3</sub>/UV), and anaerobic/aerobic biological treatment processes, including ancillary equipment, e.g., chemical pretreatment, dewatering, and disinfection. Having familiarity with water treatment system control logic and process and analytical instrumentation is a plus. Hands-on experience with water treatment systems is preferred. The selected candidate will work closely with AVANTech's mechanical and electrical engineering groups to design, manufacture, test, commission, and operate a wide variety of water treatment systems.

Key responsibilities include preparing process flow diagrams (PFDs), material and energy balances (MEBs), and piping and instrumentation diagrams (P&IDs). The successful candidate must be able to:

- Perform detailed sizing calculations and then select process components (pumps, control valves, instruments, consumables, etc.) that are used in water treatment systems.
- Complete all aspects of bench/pilot scale testing initiatives, including design of test apparatus, creation of test instructions, and related data analysis.
- Respond to customer inquiries concerning AVANTech products and services as well as to offer new solutions for unique water treatment application on which no previous work has been performed.
- Operate, troubleshoot, and maintain existing AVANTech water treatment systems, when required.

The successful candidate will continually communicate with various groups within AVANTech as well as with customers; therefore, good verbal, written, and technical communication skills are essential.

### Qualifications:

- Bachelor of Science Degree in Chemical engineering or Mechanical Engineering
- Minimum one (1) year experience with the preparation of water treatment system PFDs and P&IDs, as well as the selection of process components for these systems
- Must have demonstrated proficiency in the design of industrial water and wastewater treatment and liquid waste management

- Candidate who challenges conventional approaches to water and waste treatment and the capability to develop innovative technologies and solutions is desired
- Candidate should possess a methodical yet open-minded approach to problem solving
- Preferred experience includes wastewater treatment at nuclear plants, large industrial facilities, and government sites
- Demonstrated ability to work independently
- Excellent interpersonal skills necessary to effectively communicate and work with clients

At AVANTech, we are energetic and passionate about what we do. We seek qualified candidates who share our vision, values, and commitment to superior customer service to both our internal customers as well as our external customers.

Candidates must be able to pass drug test. A high level of safe working practices and procedural awareness is necessary.

To apply send resume, cover letter and salary history to:

AVANTech Incorporated                                          or                                          e-mail: [dgrant@avantechinc.com](mailto:dgrant@avantechinc.com)  
2050 American Italian Way  
Columbia, SC 29209  
Attn: Human Resources

**AVANTech Incorporated is an Affirmative Action/Equal Opportunity Employer**