

April 2, 2025**Senior Mechanical Engineer – Richland, WA****Who We Are:**

[AVANTech, LLC](#) is a rapidly growing technology company which designs, fabricates, and operates specialty water treatment equipment for government and commercial clients. We solve some of the most challenging problems in the water industry – from being first responders to the [Fukushima Nuclear Plant](#) meltdown to implementing patented first-of-its-kind technology for industrial wastewater recycling to cleaning-up legacy wastewater at government sites resulting from weapons manufacturing during the cold war era. AVANTech's goal is to improve the environment around us and support our clients with innovative sustainable water treatment solutions.

Benefits of Working with AVANTech:

- Generous paid time off and holidays
- Great opportunity for advancement with a growing company
- Varied insurance offerings with employer matching
- 401(k) savings plan with employer match
- Flexible work schedule. Options can include the following:
 - Monday – Thursday (10-hour days), off on Friday
 - Monday – Thursday (9-hour days), half day on Friday
 - Monday – Friday (8-hour days)

Who You Are:

The **Senior Mechanical Engineer** will have an integral role in helping AVANTech design and implement water treatment systems across the globe. Your role in this process will include the review and approval of various design documents including 3D system models, 2D manufacturing drawings, technical reports, and design calculations. The Senior Mechanical Engineer will work with project managers, electrical engineers, chemical engineers, and junior-level mechanical engineers to develop creative solutions to solve problems in the water treatment industry. An important part of this role is acting as the overall technical lead and/or project engineer for large complex projects. This is an upper-level mechanical engineering position with opportunities for advancement based on productivity, efficiency, and experience.

A Day in the Life of a Project Engineer:

- Assess and clarify project specifications to establish design/engineering scope and technical requirements. Act as technical lead for large complex projects to ensure client satisfaction.
- Work closely with the design team, customer, subcontractors and Project Manager to resolve technical issues and move the design process along efficiently, helping minimize scope creep.

- Produce conceptual designs from client specifications and develop both basic and detailed engineering documentation.
- Perform and document design calculations to ensure design is compliant with client specifications and applicable codes and standards.
- Assist with the preparation of scope, cost, and schedules for future project/tasks.
- Work closely with suppliers, vendors, and technical representatives for specification of various mechanical systems and components to support overall project design.
- Ensure compliance of various design documents with AVANTech Nuclear Quality Assurance (NQA-1) program.
- Interact with manufacturing team members to optimize mechanical design. Manufacturing team members can include welders, pipe fitters, painters, operators, and quality assurance personnel.
- Possess the ability to implement various design codes and standards. These standards shall include, but not be limited to, pressure vessel (ASME Section VIII Div.1), piping (ASME B31.3), structural (ASCE 7 / AISC Steel Construction Manual), and welding codes (AWS D1.1/ AWS D1.6).

Required Qualifications:

- Bachelor of Science (B.S.) Degree in Mechanical Engineering from an accredited college/ university
- P.E. preferred, not required
- Ability to work with others in a cooperative team environment
- General knowledge of Creo or SOLIDWORKS is highly preferred
- Minimum of 10 years' experience in mechanical or design engineering
- Strong problem-solving capabilities
- Positive attitude and excellent work ethic

Additional Requirements:

- All candidates must be able to pass a drug test, pre-employment physical, and background investigation.
- High awareness of safe working practices and procedures.

Job Type: Full-time, salaried, exempt.

Annual Salary Range: \$125,000 - \$160,000 based on experience and skill level.

To Apply: send resume, cover letter, and salary history to: kbell@avantechllc.com

AVANTech is an Affirmative Action/Equal Opportunity Employer