

**Job title:**

Sr. Mechanical Engineer

**Job Details:**

Full-time, regular

**Job Location:**

Dedham, MA

**Job Description:**

Woodard & Curran is a 600-person, integrated engineering, science, and operations company. Privately held and steadily growing, we serve public and private clients nationwide. We consistently rank among the top firms in the U.S., including Engineering News-Record's top 100 environmental firms and top 200 design firms. Woodard & Curran was founded with a simple business concept: if we provide an enjoyable place to work with opportunity, integrity, and commitment, we will attract talented people who thrive and excel at their work.

**Responsibilities:**

Woodard & Curran is seeking qualified applicants for a position of Senior Mechanical Engineer located in our Dedham, MA office. In this position, the applicant will work with a multidisciplinary group of engineers and technicians in providing technical services to public and private sector clients. Primary activities will include technical support and design in various process mechanical systems relating to water and wastewater treatment, storm water, and water resources, for a variety of municipal, federal, and industrial clients. The projects range from new developments to rehabilitation and from feasibility to construction and commissioning.

The applicant will also:

- Carry out planning studies, detailed analyses, design, and construction services related to process mechanical equipment typically associated with water, wastewater, pumping stations, and industrial projects for various domestic and international water resource projects;
- Perform analysis and design of mechanical systems including major mechanical equipment pump, valves and piping systems;
- Be skilled in report and specification writing;
- Perform process equipment selection, mechanical calculations prepare equipment layouts and coordinate with other engineering disciplines during preliminary feasibility studies, design, and construction;
- Support multi-disciplinary teams on related projects;
- Work on CADD (Computer-Aided Design and Drafting) to produce final design documents;
- Preparation of construction plans and equipment procurement specifications, including evaluation of process equipment bids;
- Perform factory witness testing of various pumps, process air blowers, and other mechanical equipment, and review of test reports;
- Review of design submittals for various process equipment, piping, valves, gates, pumps, and other mechanical related items;
- Assist technical staff with field activities including providing technical assistance during equipment installation, site inspections, equipment commissioning and start-up, equipment performance testing, monitoring and other fieldwork.
- Applicant shall work in a manner to ensure personal safety and that of fellow employees by following

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company health and safety guidelines and policies;

- PE registration in Massachusetts is required. Additional registrations in other states may be required;

**Qualifications:**

- Bachelor of Science degree in mechanical engineering and six (6) years of experience. Must have a solid background in the fundamentals of mechanical engineering;
- PE in Mechanical Engineering required in Massachusetts and experience in Municipal bidding requirements in Massachusetts;
- 6 to 10 years' experience in the design and implementation of mechanical systems; experience in water, wastewater, and/or industrial related projects is preferred;
- Must be able to demonstrate good interpersonal skills and the ability to work in a team environment;
- Must have excellent communication skills and the ability to convey project mechanical needs to the project managers and clients and to formulate those needs into comprehensive plans and specifications;
- Must demonstrate organizational skills, and ability to work on multiple projects simultaneously;
- Basic computer knowledge is required including "Microsoft Office", Microsoft Project, BIM/Revit, FEA, CFD, MicroStation or AutoCad software knowledge is preferred;
- Must have a solid educational background and sound knowledge of the fundamentals of mechanical engineering;
- Must have familiarity with calculations for mechanical energy requirements and piping losses;
- Must be willing to travel occasionally, as dictated by project workload;
- Strong willingness to work with teams in other offices around the United States.

Applicants may apply online at [www.woodardcurran.com/hr](http://www.woodardcurran.com/hr) or submit their resume via fax to 888-761-0944.

Woodard & Curran is an Affirmative Action/ Equal Opportunity Employer.

Woodard & Curran is a Drug Free Work Place.