

MID LEVEL BRIDGE ENGINEER

Modjeski and Masters is looking for a Bridge Engineer with 5-10 years in bridge design experience in our Mechanicsburg Office.

Education and License Requirements:

- A minimum of a BSCE from an ABET accredited college or university;
- Registered Professional Engineer

General Responsibilities:

- Perform structural design and detailing of major bridge components as one of the primary project engineers, with limited guidance from Project Managers and Senior Structural Engineers;
- Assist Project Managers in identifying project issues and in developing solutions;
- Lead CAD technicians in the development of contract plans, and in the layout of contract plan sets;
- Assist in the guidance and supervision of entry-level engineers assigned to the same project;
- Perform tasks on multiple, concurrent projects;
- Works with clients, subconsultants, contractors, fabricators, etc. as directed by Project Managers;
- Develop effective presentation skills;
- Lead the development of design reports;
- Assist in the development of technical and price proposals and
- Perform field and construction services assignments.

Skills and Abilities:

- Broad knowledge of bridge analysis, design and detailing methods;
- Possesses, or has the ability to develop, effective leadership and communication skills necessary to lead teams of engineers and technicians;
- Problem-solving skills necessary to resolve both design and detailing issues;
- Ability to identify appropriate steps in the bridge design and detailing process, and the initiative to complete the necessary tasks and
- Increased understanding and awareness of global project aspects, including the proposal process, management of time and resources, and coordination with Subconsultants and other engineering disciplines.

FIELD SERVICES ENGINEER

Modjeski and Masters is looking to hire multiple Field Service Engineers with 0-5 years of job related experience in our Mechanicsburg Office.

Education and License Requirements:

- A minimum of a BS degree in Civil Engineering from an ABET accredited college or university;
- E.I.T. or P.E. a plus

General Responsibilities:

- Perform field inspections and preparation of inspection reports with recommendations for maintenance and repair for all types and sizes of highway and railroad bridges, including fixed bridges, such as suspension and cable-stayed bridges, trusses, girder and beam bridges, and movable bridges and
- Assist in monitoring new bridge construction or rehabilitation and special investigation projects.

Skills and Abilities:

- The willingness to utilize specialized equipment and techniques typically employed by rock and mountain climbers.

Working Conditions:

- Position requires travel, especially during the Spring through Fall months and
- Field services are provided to clients throughout the United States and Canada.

ELECTRICAL ENGINEER

Modjeski and Masters is looking for an Electrical Engineer with 0-10 years of job related experience in our Mechanicsburg Office.

Education and License Requirements:

- A minimum of a BS degree in Electrical Engineering or Engineering with concentration in Electrical from ABET accredited college or university;
- E.I.T. or P.E. a plus
- Submit to and pass a security background check, after hiring, for access to certain clients' facilities.

General Responsibilities:

- Design electrical control systems for both manual and automatic draw bridge operations;
- Design power distribution for roadway lighting systems and movable bridge electrical systems;
- Develop details for mounting electrical components;
- Perform field inspection and evaluation of movable bridge electrical systems and write system evaluation reports and
- Assist with on-site movable bridge electrical system startup and/or troubleshooting.

Skills and Abilities:

- Should be familiar with control systems, PLC's, relays, and basic electrical power distribution;
- Should be familiar with basic electrical power calculations;
- Should be physically capable of climbing ladders, stairways, and be able to work on walkways and platforms at high elevations, such as on high bridge superstructures during brief field assignments;
- Must have good command of the English language with good oral and written communications skills and
- Acquire registration as a Professional Engineer, if not already registered when hired.

Working Conditions:

- Approximately 80 percent office work and 20 percent project site work;
- Occasional travel with overnight stays and
- Will be working with a team of electrical and mechanical engineers, under the direct supervision of the electrical engineering section supervisor, who is a registered electrical engineer.