Civil Engineer I

Salary

$51,587.38 - $70,889.52 Annually
$1,984.13 - $2,726.52 Biweekly

Location

Northampton, MA

Job Type

Full time

Department

Highway - District 2

Job Number

16-00599

Closing

7/29/2016 11:59 PM Eastern

Duties & Responsibilities

Perform all functions of assistant to Resident Engineer on projects with scopes of work that include activities such as interstate resurfacing, roadway reconstruction, bridge rehabilitation, and bridge replacement. Perform all functions of Resident Engineer on projects with scopes of work that include activities such as bridge rehabilitation, roadway resurface, and multi-use path. Inspect construction operations to ensure conformance to contract provisions, contract plans, approved contractor submittals, Standard Specifications, Manual on Uniform traffic Control Devices, and other technical standards. Prepare or approve all contract documentation both hand written on computer generated on-site at construction projects. Availability for night work and non-standard work shifts may be required for this position.
Minimum Entrance Requirements

Applicants must have at least (A) two years of full-time, or equivalent part-time, technical or professional experience in civil engineering work in such areas as construction, survey, design, transportation, hydraulics, structural, sanitary, drafting, environmental, highway, architectural, airport, soils and materials or (B) any equivalent combination of the required experience and the substitutions below.

Substitutions:

I. An Associate's degree with a major in civil engineering** or civil engineering technology** may be substituted for a maximum of one year of the required experience.*

II. A Bachelor's or higher degree with a major in civil engineering** or civil engineering technology**, may be substituted for the required experience.*

**NOTE: The terms civil engineering and civil engineering technology include related engineering disciplines such as construction, survey, hydraulics, design, transportation, structural, soils, sanitary, environmental, drafting, highway, architectural, mining, airport and materials.

*Education toward such a degree will be prorated on the basis of the proportion of the requirements actually completed.

FOR NON-MassDOT APPLICANTS:

Applicants for this position must possess a Bachelor's Degree in an appropriate engineering discipline for appointment to this position.

FOR MassDOT EMPLOYEES:

Applicants for this position must possess a Bachelor's Degree in an appropriate engineering discipline for appointment to this position, or hold a position in the Department in the next lower title than the position applied for, in the same or similar career ladder.

Supplemental Information

Preferred Qualifications:

1. Knowledge of the principles and practices of civil engineering.
2. Knowledge of the terminology and standard abbreviations used in civil engineering.
3. Knowledge of the principles of hydraulics as applied to surface drainage pipes and culverts.
4. Knowledge of the engineering properties of soils.
5. Knowledge of the properties and characteristics of concrete, asphalt and other materials used in bridge, highway, and building construction.

6. Knowledge of standard construction materials testing.

7. Knowledge of the types & skill in the uses of equipment used in plane surveying.

8. Knowledge of mathematical formulae used to compute volumes and area.

9. Knowledge of mathematical computations used in solving civil engineering problems.

10. Knowledge of elementary algebra, trigonometry, plane and solid geometry, integral and differential calculus.

11. Knowledge of the standard procedures for taking field notes in connection with plane surveying.

12. Ability to analyze and determine the applicability of civil engineering data, to draw conclusions and make appropriate recommendations.

13. Proficiency in MS Office Programs and AutoCAD.

Working Conditions:

Civil Engineers may work in an office or outside in all types of weather and under exposure to such hazardous conditions as those found on construction sites and may travel for job related purposes. Covering night construction operations, when scheduled, is expected.

For purposes of bargaining unit designation, Unit 9 is equivalent to MassDOT Unit E.

Additional Information
External applicants are required to apply online.

Internal applicants are strongly encouraged to apply online.

Contact designated analyst, Robin Burke, for job information at (857) 368-8585. Human Resources, Transportation Building, Room 3170

If you need an alternative form of the application, please contact the Americans with Disabilities Act Coordinator at (857) 368-8738.

MassDOT is an Equal Opportunity/Affirmative Action Employer.

Agency
MassDOT

Address
10 Park Plaza, Rm 3170
Boston, Massachusetts, 02116.

**Phone**
857-368-8585

**Website**