



An Official website of the Commonwealth of
Massachusetts

MassCareers Job Opportunities

Job Description

Traffic Design Reviewer - (190004IW)

Description

About MassDOT:

An agency on the move, the Massachusetts Department of Transportation (MassDOT) takes great pride in connecting the Commonwealth's residents and communities. Powered by a growing data-analytics discipline – and working in conjunction with municipalities, public agencies and the private sector – we're finding new ways to improve the Bay State's transportation infrastructure.

Position Summary:

The incumbent of this position prepares or reviews plans, designs, specifications, and cost estimates for engineering projects; prepares and/or reviews reports, studies, and analytical data; performs calculations relating to engineering problems; performs engineering surveys; inspects construction and/or maintenance work; and performs professional engineering duties in such areas as highways, bridges, buildings, and facilities all in accordance with sound engineering principles, applicable laws, regulations, and standards.

Additionally, the incumbent of this position prepares conceptual designs and feasibility studies and/or is responsible for the design of in-house projects all under the close supervision of a senior engineer; writes contract special provisions and coordinates activities with other sections, divisions, or agencies; supervises and provides training to less senior staff members; and provides support to the Team Leader/Project Manager in Design Team operations.

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 soil.
5. Knowledge of the properties and characteristics of concrete and asphalt; mechanical properties of fluids; theory and practice of plane surveying.

6. Knowledge of the types and uses of equipment and materials used in building bridge, highway, road, and street or tunnel construction.
7. Knowledge of the types and skill in the uses of equipment used in plane surveying; knowledge in the methods of soil testing.
8. Knowledge of mathematical formulae used to compute volumes and areas.
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; knowledge of the standard procedures for taking field notes in connection with plane surveying.
11. Ability to analyze and determine the applicability of civil engineering data to draw conclusions and make recommendations.
12. Ability to understand, apply, and explain the laws, rules, regulations, procedures, specifications, and guidelines governing assigned unit activities and in connection with the construction and maintenance of highways, bridges, buildings, etc.
13. Ability to supervise, including planning and assigning work according to the nature of the job to be accomplished, the capabilities of the subordinates and available resources; controlling work through periodic reviews and/or evaluations; determining subordinates' training needs and providing or arranging such training; motivating subordinates to work effectively; determining the need for disciplinary action and either recommending or initiating disciplinary action.

If you have questions regarding this position, please contact Alaina Seitz, Human Resource Specialist, at 857-368-8596.

Qualifications

This requisition will remain open until filled; however, first consideration will be given to those applicants that apply within the first 14 days.

Minimum Entrance Requirements:

Applicants must have at least (A) three 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, of which (B) at least one year must have been in a professional capacity, or (C) 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 (A) experience.*

II. A Bachelor's degree with a major in civil engineering** or civil engineering technology**, may be substituted for a maximum of two years of the required (A) experience.*

III. A Graduate degree with a major in civil engineering**, may be substituted for the required experience.*

**NOTE: The terms civil engineering and civil engineering technology include related engineering disciplines such as construction, survey, design, transportation, hydraulics, 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.

SPECIAL REQUIREMENT: Based on assignment, possession of a current and valid Massachusetts Class D Motor Vehicle Operator's License may be required.

FOR NON-MassDOT APPLICANTS:

Applicants for this position must possess a Bachelor's Degree in an appropriate engineering discipline and E.I.T. certification or P.E. registration for appointment to this position.

FOR MassDOT EMPLOYEES:

Applicants for this position must possess a Bachelor's Degree in an appropriate engineering discipline and E.I.T. certification or P.E. registration 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.

An Equal Opportunity / Affirmative Action Employer. Females, minorities, veterans, and persons with disabilities are strongly encouraged to apply.

All job applications must be submitted online through MassCareers to be considered. If you need an accommodation to complete the application electronically please contact the ADA Coordinator Rita DiNunzio 857-368-8738.

Official Title: Civil Engineer II

Primary Location United States-Massachusetts-10 Park Plaza

Job Engineering

Agency Massachusetts Department of Transportation

Schedule Full-time

Shift Day

Posting Date Jul 19, 2019

Number of Openings 1

Salary 58,694.19 - 81,443.86 Biweekly

If you have Diversity, Affirmative Action or Equal Employment Opportunity questions or need a Reasonable Accommodation, please contact Diversity

Officer / ADA Coordinator: Derrick Mann (857-368-8541)/Rita DiNunzio, ADA - 857-368-8738

Bargaining Unit: DOT

Confidential: No