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## Job Description

### Environmental Engineer IV - (180003WO) Description

#### **FIRE PROTECTION ENGINEER**

Exciting opportunity within the Fire Safety Division! Utilize your skills to help fulfill the Massachusetts Department of Fire Services' fire and life safety mission! Working as a Fire Protection Engineer provides an exciting opportunity to join a fast-paced and energetic team of dedicated fire safety professionals.

The ideal candidate will possess an engineering degree focusing on fire protection with 3-5 years of industry experience, able to navigate and apply Massachusetts building and fire code regulations to a variety of projects.

Our professional team of fire protection engineers work with the singular purpose of ensuring the highest level of fire and life safety protection for citizens of the Commonwealth. Through our interactions with industry leaders, fire departments, and other governmental agencies, our engineers have become highly-regarded within the industry. Our engineers consult on a variety of interesting and unique projects and are called upon to provide technical support for the building and fire code regulating boards. Through the position of fire protection engineer, you can make a positive impact on the fire and life safety within the Commonwealth!

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The Department of Fire Services is located in idyllic Stow, MA. The campus is adjacent to a wildlife refuge site with walking trails and is easily accessed by Rt. 290, 495, or I95. Our suburban setting offers a large variety of technical fire protection engineering projects without the need to commute into the city.

The State's current compensation package features an outstanding set of employee benefits which you should consider towards your total compensation, including:

- 75% state paid medical insurance premium
- Economical Dental and Vision Plans
- Flexible Spending Account and Dependent Care Assistance programs
- Low cost basic and optional life insurance
- Retirement Savings: State Employees' Pension and a Deferred Compensation 457(b) plan
- 11 paid holidays per year and competitive Sick, Vacation and Personal Time
- Tuition Remission for employee and spouse at state colleges and universities
- Long-term disability insurance program options
- Incentive-based Wellness Programs
- Professional Development and Continuing Education opportunities

#### **DETAILED DUTIES:**

- Provide engineering services and technical assistance to the 367 local fire departments. Provides fire protection engineering consultation to the 367 local fire departments. Provides site visits to the 367 local fire departments to assist in ensuring plan designs and specifications meet state codes and regulations regarding life safety; works with the regulated community to ensure compliance with regulations including hazardous materials storage, use handling and protection and hazardous material processing regulation; assists architects, engineers and contractors in the interpretation of proper construction, protection and compliance with the state codes; inspects facilities to ensure compliance with the design plans and state regulations. Provides fire protection system plan review and engineering services to the 367 local fire departments, including performance-based designs. Provide fire protection system acceptance testing services to the 367 local fire departments. Utilize computer fire models and be aware of their limitations. Provide consulting services to the 367 local fire departments in the use of computer fire models. Resolve technical issues/disputes between the engineering and design professionals and the enforcement authorities, which involves the interpretation of regulations, codes, standards and laws.
- Manage the Commonwealth's AST program. Manage the Commonwealth's Aboveground Storage Tank (AST) Program in accordance with M.G.L. 148 § 37. Managing the program involves plan reviews on all new ASTs, on all repaired ASTs per 502 CMR 5.00, and the review of the AST inspections and overall management and further development of My License Office (MLO). Participate in the National Aboveground Storage Tank programs with the

## United States Environmental Protection Agency (EPA).

- Research and provide technical advice and interpretations on codes, standards, and regulations to engineers, architects, contractors, and the public. Research new products for fire safety issues. Answer technical questions from concerned citizens, contractors, and engineers. May advise engineers, contractors and architects on the proper storage of, protection of, and processes utilizing hazardous materials. Based on research, may issue reports or make recommendations based on technical merit.
- Represent the Division of Fire Safety on various public boards and committees. As needed, be a representative of the Division of Fire Safety to the Board of Fire Prevention Regulations, Board of Building Regulations and Standards, Fire Protection/Fire Prevention Board, Fire Prevention Association of Massachusetts, Western Massachusetts Fire Prevention Association, National Fire Protection Association, The American Fire Sprinkler Association, Automatic Fire Alarm Association, and the local, national, and international chapters of the Society of Fire Protection Engineers.
- Provide technical services to other state, federal, and private organizations. Develop and present fire safety and fire protection system presentations and training for the local fire prevention personnel. Develop and present fire safety and fire protection system presentations and training for joint training with the local fire prevention and building inspection departments. In conjunction with the Massachusetts Firefighting Academy, utilize engineering expertise to develop and present training classes to the local firefighters. Give technical assistance to all divisions of the Department of Fire Services (i.e. State Police Fire Investigative Unit, Code Compliance Unit, Executive Office, and Division of Fire Safety). As needed, serve as liaison between the United States Consumer Products Safety Commission and the Department of Fire Services – Division of Fire Safety. Assist with technical fire and explosion investigations and provide research services and technical data to the Massachusetts State Police Fire Investigation Unit. Collaborate with the other New England states' technical personnel on key fire safety issues. Work with all of the other State Fire Marshals on important national technical issues. Utilize background engineering specialties to serve the needs of Department of Fire Services.
- Play an integral part in the development of new Massachusetts regulations. Play an integral part in the development of the new Massachusetts Comprehensive Fire Safety Code and the general fire and life, safety, and fire protection system portions the State Building Code.
- Stay informed of new developments in the fire protection field. Monitor, review, compare and critique up-coming fire-related National Fire Codes, National Standards, Technical Bulletins, Technical Committee Reports and published articles. Research and monitor recent major fire, explosion and life-safety incidents and then compare and contrast how Massachusetts regulation would have affected the results. Be aware of potential terrorist targets (CNG, LNG, LPG and AST facilities) and evaluate the related regulations. Based on recent information, evaluate Massachusetts' regulations for their appropriateness.

## **PREFERRED QUALIFICATIONS:**

- A Bachelor of Science degree from an accredited college or university, with a major or concentration in fire protection engineering is strongly preferred.
- A professional engineering license in the field of Fire Protection Engineering or the ability and desire to pursue an FPE license.
- A Fundamentals of Engineering exam certification.
- Knowledge of the principles, methods and practices of modern fire prevention, fire protection engineering and fire suppression activities; new construction technology; plan review and application of state and federal codes and regulations; mechanical; and chemical and related characteristics for a wide variety of flammable and explosive materials and hazardous substances; and applicable codes.
- Knowledge of NFPA and ICC codes.
- Knowledge of good engineering practice and national standards associated with process safety, and characteristics for a wide variety of flammable, combustible and explosive materials and hazardous substances.
- Knowledge of the methods of general report writing.
- Ability to communicate technical material effectively orally and in writing to the non-technical reader.
- Ability to enforce codes and standards with firmness and tact.
- Ability to conduct plan reviews and detect deviations from plans, regulations and safety procedures;
- Ability to properly interpret and make decisions in accordance with laws, regulations and policies;
- Ability to perform fire prevention inspection for a variety of buildings and structures;
- Ability to develop and present fire safety and fire protection system presentations and training;
- Ability to work independently or as a team member.
- Ability to analyze and determine the applicability of data, to draw conclusions and to make appropriate recommendations.
- Ability to follow through to obtain objectives under limited supervision.
- Ability to exercise discretion in handling information of a confidential or sensitive nature.
- Ability to climb and crawl as well as lift and carry heavy objects.
- Possession of a current and valid Motor Vehicle Operator's License.

\*Salary placement is determined by years of experience and education directly related to the position and the Human Resources Division recruiting guidelines. Generally, a substantial number of years' experience beyond the minimum entrance requirements is required to attain the middle range of the salary range.

### **Qualifications**

**First consideration will be given to those applicants that apply within the first 14 days.**

**MINIMUM ENTRANCE REQUIREMENTS:** Applicants must have at least (A) five years of full-time, or equivalent part-time, technical or professional experience in the field of environmental engineering, civil engineering, sanitary engineering, mechanical engineering, chemical engineering or public health engineering and (B) of which at least three years must have been in a professional capacity and (C) of which at least one year must have been in a supervisory, managerial or administrative capacity, or (D) 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 environmental engineering, civil engineering, civil engineering technology, sanitary engineering, mechanical engineering, chemical engineering or public health engineering may be substituted for a maximum of two years of the required (A) experience \*

III. A Graduate degree with a major in environmental engineering, civil engineering, sanitary engineering, mechanical engineering, chemical engineering or public health engineering may be substituted for a maximum of three years of the required (A) experience and one year of the required (B) experience.\*

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

**NOTE:** Educational substitutions will only be permitted for a maximum of one year of the required (B) experience. No substitutions will be permitted for the required (C) experience.

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

**Official Title:** Environmental Engineer IV

**Primary Location:** United States-Massachusetts-Stow-State Road

**Job:** Engineering

**Agency:** Department of Fire Services

**Schedule:** Full-time

**Shift:** Day

**Job Posting:** Jun 18, 2018, 12:24:18 PM

**Number of Openings:** 1

**Salary:** 66,213.68 - 96,567.64 Yearly

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

**Officer / ADA Coordinator:** Mary Travers - 978-567-3145

**Bargaining Unit:** 09-MOSES - Engineers/Scientists

**Confidential:** No

