

Fire Protection DE, Data Center Design Engineering

Job ID: 3076095 | Amazon Data Services, Inc.

Description

Do you dream of working in a role where your talent with Fire Protection and next-generation data center design can be merged? Do you want to expand your current knowledge of building systems while providing input from your previous experience? Have you ever wondered what it is like to be able to influence construction on a global scale? YES! Then keep reading....

In this role you will influence all aspects of fire protection design, construction, operations, and maintenance for our global fleet of data centers. This includes fire suppression, fire detection, fire alarm, and mass notification systems, as well as fire-resistant construction and life safety. You will work with internal and external teams to define, design, detail, and document the various fire protection features that our facilities require, using both prescriptive and performance-based design approaches. As an Owner, you will strive to ensure the fire protection features of our buildings protect our people and keep our customer’s data safe and uninterrupted over the life of the building. We expect you to contribute your expertise to the continual improvement of our fire protection design standards.

Primary responsibilities will be to perform and oversee project-related work, such as water supply analysis and design for fire water service to buildings, including coordination with utilities and fire officials to establish basic site infrastructure requirements. The ability to coordinate fire protection system space requirements, supporting utilities, and equipment locations, and to provide detailed construction specifications for all fire protection-related trades will be expected. You will typically be responsible for the preparation of prescriptive designs for building fire suppression, alarm, and detection systems. In some cases, you will be expected to prepare or approve performance-based design elements as needed to support our goals. You will review all design disciplines to ensure they meet the minimum fire protection requirements described in our design standards. In some cases, you will oversee and review this work and in other cases you will perform the work yourself.

As the team’s subject matter expert, you will ensure that contractors have the information they need to build our data centers the way we expect them to, and that our operations teams are well equipped to operate and maintain them as needed to meet our goals. As part of this role you will work with internal and external stakeholders, including design, construction, commissioning, operations, vendors, and other service providers, as well as local building and fire officials. You will be part of a global team, and you will be an integral part of our work to change the world through technology.

A day in the life

About the hiring group

The Data Center Design Engineering team at Amazon Web Services consists of Architects, Structural, Mechanical, Electrical, Civil, Fire Protection and Controls Engineers working to design the next generation of Data Centers. The team is committed to achieving a world-class uptime for our customers and strives to develop a fleet of buildings emphasizing security, safety, and efficiency, while finding new ways to meet our growing demand. We justify and communicate the technical decisions we make directly to AWS leadership and work hard to drive continuous advancements in our designs. As an integral member of the team, you will have the opportunity to directly impact our business and create positive change.

Job responsibilities

- Driving improvement of design standards and project approaches across the organization.
- Work with third party design vendors to review concept designs and designs in progress to ensure they meet established design standards, local code requirements, and any other requirements of the Authorities Having Jurisdiction (AHJs).
- Be responsible for providing high quality fire protection engineering advice on a wide variety of projects globally while working with global fire protection engineering teams to achieve alignment of designs and design objectives.
- Coordinating with construction, commissioning, and risk management teams to answer requests for information and value engineering queries.
- Be responsible for construction documents, code compliance, design and installation standards, water supply evaluation and assessment, testing, inspections, and submittal review. Meet with AHJs as needed to ensure approval of fire protection features.
- This position will require up to 25% travel.

Basic Qualifications

- Bachelor’s degree in a field related to fire protection or an equivalent engineering degree in a related field with at least 5 years additional qualifying experience.
- Cumulative 10+ years of experience in design engineering or the construction industry, related to all aspects of fire protection, including fire suppression systems, fire alarm and detection systems, fire-resistive construction, and life safety.
- Experience applying local codes, National Fire Protection Association (NFPA) standards, International Code Council (ICC) requirements, and other fire protection industry standards, procedures, and methodologies.
- Experience with processes of design review, specification, development of design standards, and submittal review.
- Ability to read and understand construction documents for all trades (design drawings, control diagrams, specifications, etc.).
- Licensed Fire Protection Engineer

Preferred Qualifications

- Experience authoring white papers, technical documentation, training materials, Code Modification Requests (CMRs), and Alternate Materials and Methods (AMM) proposals,
- Experience directly related to construction of data centers, critical medical, industrial, construction, oil and gas, or large-scale mechanical and power systems.
- Experience as a fire marshal, fire plans examiner, fire inspector, or authority having jurisdiction
- Strong knowledge of ICC Codes, NFPA Standards, and other fire protection industry standards, procedures, and methodologies.
- Experience in the development processes for codes and standards; NFPA technical committee participation.
- Experience with performance-based alternatives to prescriptive fire protection design.
- Advance knowledge of both mechanical and electrical systems commissioning.
- Strong business analytics skills.

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Our inclusive culture empowers Amazonians to deliver the best results for our customers. If you have a disability and need a workplace accommodation or adjustment during the application and hiring process, including support for the interview or onboarding process, please visit <https://amazon.jobs/content/en/how-we-hire/accommodations> for more information. If the country/region you’re applying in isn’t listed, please contact your Recruiting Partner.

Our compensation reflects the cost of labor across several US geographic markets. The base pay for this position ranges from \$128,600/year in our lowest geographic market up to \$212,800/year in our highest geographic market. Pay is based on a number of factors including market location and may vary depending on job-related knowledge, skills, and experience. Amazon is a total compensation company. Dependent on the position offered, equity, sign-on payments, and other forms of compensation may be provided as part of a total compensation package, in addition to a full range of medical, financial, and/or other benefits. For more information, please visit <https://www.aboutamazon.com/workplace/employee-benefits>. This position will remain posted until filled. Applicants should apply via our internal or external career site.

