

Sr. Fire Protection Engineer, Data Center Design Engineering

Job ID: 10381892 | Amazon Data Services, Inc.

Description

AWS Infrastructure Services owns the design, planning, delivery, and operation of all AWS global infrastructure. In other words, we're the people who keep the cloud running. We support all AWS data centers and all of the servers, storage, networking, power, and cooling equipment that ensure our customers have continual access to the innovation they rely on. We work on the most challenging problems, with thousands of variables impacting the supply chain — and we're looking for talented people who want to help. You'll join a diverse team of software, hardware, and network engineers, supply chain specialists, security experts, operations managers, and other vital roles. You'll collaborate with people across AWS to help us deliver the highest standards for safety and security while providing seemingly infinite capacity at the lowest possible cost for our customers. And you'll experience an inclusive culture that welcomes bold ideas and empowers you to own them to completion.

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.

Key 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.

About the team

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.

Why AWS?

Amazon Web Services (AWS) is the world's most comprehensive and broadly adopted cloud platform. We pioneered cloud computing and never stopped innovating — that's why customers from the most successful startups to Global 500 companies trust our robust suite of products and services to power their businesses.

Diverse Experiences

Amazon values diverse experiences. Even if you do not meet all of the preferred qualifications and skills listed in the job description, we encourage candidates to apply. If your career is just starting, hasn't followed a traditional path, or includes alternative experiences, don't let it stop you from applying.

Work/Life Balance

We value work-life harmony. Achieving success at work should never come at the expense of sacrifices at home, which is why we strive for flexibility as part of our working culture. When we feel supported in the workplace and at home, there's nothing we can't achieve in the cloud.

Inclusive Team Culture

Here at AWS, it's in our nature to learn and be curious. Our employee-led affinity groups foster a culture of inclusion that empower us to be proud of our differences. Ongoing events and learning experiences, including our Conversations on Race and Ethnicity (CORE) and AmazeCon conferences, inspire us to never stop embracing our uniqueness.

Mentorship and Career Growth

We're continuously raising our performance bar as we strive to become Earth's Best Employer. That's why you'll find endless knowledge-sharing, mentorship and other career-advancing resources here to help you develop into a better-rounded professional.

Basic Qualifications

- 6+ years of data center design, construction, operations, or facility maintenance experience
- 6+ years of industrial or commercial engineering in mission critical facilities including but not limited to: data centers, power generation or oil and gas facilities experience
- Bachelor's degree in Engineering or a related field
- Experience in data center design, construction, operations, or facility maintenance
- Experience researching new designs, technologies, and construction methods of data center equipment and facilities
- Experience applying local codes, National Fire Protection Association (NFPA) standards, International Code Council (ICC) requirements, and other fire protection industry standards, procedures, and methodologies
- Licensed Fire Protection Engineer

Preferred Qualifications

- Knowledge of building codes and regulations for your region
- Experience carrying design concepts through exploration, development, and into deployment or mass production
- Experience reading, interpreting, and creating construction drawings, specifications, and submittal documents

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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.

The base salary range for this position is listed below. Your Amazon package will include sign-on payments and restricted stock units (RSUs). Final compensation will be determined based on factors including experience, qualifications, and location. Amazon also offers comprehensive benefits including health insurance (medical, dental, vision, prescription, Basic Life & AD&D insurance and option for Supplemental life plans, EAP, Mental Health Support, Medical Advice Line, Flexible Spending Accounts, Adoption and Surrogacy Reimbursement coverage), 401(k) matching, paid time off, and parental leave. Learn more about our benefits at <https://amazon.jobs/en/benefits>.

USA, TX, Austin - 136,600.00 - 184,800.00 USD annually
USA, VA, Herndon - 136,600.00 - 184,800.00 USD annually
USA, WA, Seattle - 136,600.00 - 184,800.00 USD annually

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