

# Careers at Brookhaven

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NATIONAL LABORATORY

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## Fire Protection Engineer

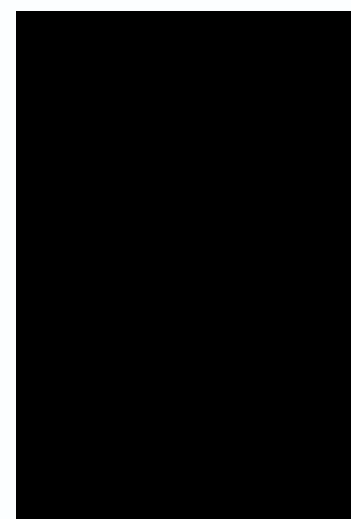
Job ID: 1523

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Brookhaven National Laboratory is a multipurpose research institution funded primarily by the U.S. Department of Energy's Office of Science. Located on the center of Long Island, New York, Brookhaven Lab brings world-class facilities and expertise to the most exciting and important questions in basic and applied science—from the birth of our universe to the sustainable energy technology of tomorrow. We operate cutting-edge large-scale facilities for studies in physics, chemistry, biology, medicine, applied science, and a wide range of advanced technologies. The Laboratory's almost 3,000 scientists, engineers, and support staff are joined each year by more than 4,000 visiting researchers from around the world. Our award-winning history, including seven Nobel Prizes, stretches back to 1947, and we continue to unravel mysteries from the nanoscale to the cosmic scale, and everything in between. Brookhaven is operated and managed by Brookhaven Science Associates, which was founded by the Research Foundation for the State University of New York on behalf of Stony Brook University, and Battelle, a nonprofit applied science and technology organization.

[Organizational Overview](#)

## What We Do



Explore career opportunities at Brookhaven Lab, where we strive to ensure the nation's security and prosperity through transformative science and technology solutions.

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## Research Facilities

Our world-class research facilities

## Organizational Overview:

The Emergency Services Division protects Laboratory personnel, infrastructure and environment taking an all hazards approach. Our goal is to prevent, mitigate, respond and recover from emergency events affecting the Laboratory.

## Position Description

### Essential Duties and Responsibilities:

- Participate in developing and implementing fire protection programs and procedures with the goal to eliminate personnel injury, property damage; interruption to programs and damage to the environment due to fire and explosion or other related perils.
- Implement programs and procedures to ensure employee and facilities are safe in accordance with BNL requirements which are based on OSHA, National Fire Protection Association standards, highly protection risk insurance standards (Factory Mutual Global) and DOE Orders.
- Reoccurring assessments of BNL's 200+ facilities to determine potential fire and life safety risks.
- Conduct interpretations and enforcement of DOE fire safety orders and standards, New York State Building and Fire Codes, OSHA, and Industry standards.
- Participate in the reviews of complex design documents required for new construction or modifications of existing facilities to determine appropriate fire prevention measures, fire protection systems and fire safety procedures are in place.
- Work with fire protection system inspection, test, and maintenance groups to ensure that fire systems operate and perform to required levels.
- Work with Fire Response to provide technical assistance.
- Participate in Laboratory Committees as a representative of Fire Protection Engineering.
- Work with science to identify and resolve fire and life safety issues.
- Participate in the fire investigations to determine the origin, cause, and what, if any, breakdown in the protective systems and procedures may have occurred.
- Conduct training on fire safety topics.
- Provide technical leadership to less experienced engineers and technicians and may act as lead person or technical expert on small to medium projects.

Will work under general direction of a senior fire protection engineer and within parameters of the existing fire safety program at BNL. Will independently determine and develop approaches to solutions based on codes and national standards, including developing rationale for solutions when conventional codes and

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standards do not apply. Work is reviewed upon completion for adequacy in meeting stated objectives.

## Position Requirements

### Required Knowledge, Skills and Abilities:

- Bachelor degree in Engineering (i.e. Fire Protection, Mechanical, Electrical, Civil, Chemical) from an accredited ABET (Accreditation Board for Engineering and Technology) institution
- Minimum seven (7) years progressively responsible work experience five of which demonstrate sound knowledge of current principles and practices in fire protection engineering (FPE) or a PE License in FPE
- Experience with National Fire Protection Association (NFPA) Codes and Standards
- Must be a U.S. citizen
- Position requires the ability to obtain/maintain a Department of Energy (DOE) security clearance
- Proficiency with Microsoft Office software package (Word, Outlook, PowerPoint, and Excel)
- Possession of a valid driver's license
- Excellent written and oral communication skills are required and will be used to justify needs and recommendations to management and operating staff

### Preferred Knowledge, Skills and Abilities:

- Master's degree in Engineering (i.e. Fire Protection, Mechanical, Electrical, Civil, Chemical) from an accredited ABET (Accreditation Board for Engineering and Technology) institution
- Previous Fire Protection Engineering experience at a DOE complex
- Experience with applicable DOE Orders and Standards related to fire protection
- Experience using scheduling software ( i.e. Microsoft Project, Primavera)
- Experience using water modeling software (i.e. KY Pipe, WaterGEMS, EPANET)
- Experience using fire dynamics modeling software (i.e. CFAST, FDS)
- Experience with fire insurance Highly Protection Risk class of insurance programs
- International Code Council Certification or New York State Code Enforcement Officer Certification
- International Association of Arson Investigators (IAAI) Professional Certification or New York State Fire Investigator Certified
- National Fire Protection Association Certified Fire Protection

Specialist (CFPS)

- NICET level III or IV certification
- Possession of Engineer In Training certification or Professional Engineer License from a state in Fire Protection Engineering

Environmental, Health and Safety Requirements:

- Climbing to roof and basements for facilities assessments
- Moderate lifting (less than 30 lb) for various tools and instruments to conduct investigations
- Valid driver's license for on-site driving
- Visually demanding work for program and facilities assessments
- Respirator Use
- Oxygen Deficiency Hazard Class 1
- This position is subject to 24 hour on-call in the event of any emergency and may require irregular work hours.
- Candidate must have the ability to respond to BNL within one hour of notification during an emergency event.
- This position is subject to travel.

At Brookhaven National Laboratory we believe that a comprehensive employee benefits program is an important and meaningful part of the compensation employees receive. Our benefits program includes but is not limited to:

- Medical Plans
- Vacation
- Holidays
- Life Insurance
- 401(K) Plan
- Retirement Plan
- On site Swimming Pool, Weight Room, Tennis Courts, and many other employee perks and benefits.

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Brookhaven National Laboratory (BNL) is an equal opportunity employer committed to ensuring that all qualified applicants receive consideration for employment and will not be discriminated against on the basis of race, color, religion, sex, sexual orientation, gender identity, national origin, age, status as a veteran, disability or any other federal, state or local protected class.

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Collaborate with world-class experts at the frontiers of science. Research at Brookhaven has led to seven Nobel Prize-winning discoveries,

programs, and active

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and many Lab scientists

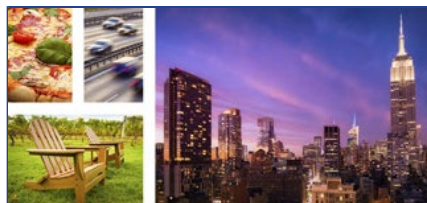
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One of ten national laboratories overseen and primarily funded by the Office of Science of the U.S. Department of Energy (DOE), Brookhaven National Laboratory conducts research in the physical, biomedical, and environmental sciences, as well as in energy technologies and national security. Brookhaven Lab also builds and operates major scientific facilities available to university, industry and government researchers. Brookhaven is operated and managed for DOE's Office of Science by Brookhaven Science Associates, a limited-liability company founded by the Research Foundation for the State University of New York on behalf of Stony Brook University, the largest academic user of Laboratory facilities, and Battelle, a nonprofit applied science and technology organization.

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