

A. JAMES CLARK  
SCHOOL OF ENGINEERING

# Department of Fire Protection Engineering

Bachelor of Science (On-Campus & Online)



Home kitchens. Industrial plants.  
Forests. The cell phone in your pocket.  
Fires can ignite anywhere.

When they do, people evacuate and firefighters rush in. But who designs the protective equipment for firefighters? Who incorporates fire safety design in buildings to protect people at home, work, or school? Who studies wildland fire spread to protect our planet from fire's damaging effects?

We expect our homes, cars, hospitals, planes, couches and mattresses to be safe. Fire protection engineers make it happen by:

- » Implementing fire safety codes and standards into building plans
- » Creating new fire protection systems for unique facility designs
- » Developing sensors to detect a fire quickly, and suppression systems to put it out just as fast
- » Identifying fire-resistant materials for furniture, electronics or the seats in your car
- » Utilizing drones and computer models to predict, visualize, and fight wildfires
- » Restricting smoke movement in building design to save lives from smoke inhalation

**Protect life. Protect property. Defend the environment.  
Become a fire protection engineer.**

## Join a small but mighty community

Founded in 1956, the Department of Fire Protection Engineering (FPE) at the A. James Clark School of Engineering offers the only ABET-accredited undergraduate FPE program in the country. We also offer a combined Bachelors to Masters degree program. Beginning in Fall 2025, the department will offer online undergraduate coursework in addition to the traditional on-campus program.

Our students get to know each other, receive personal advising, and develop relationships with our faculty that last beyond graduation. Coursework includes Fire Detection and Notification, Smoke Control, Fire Suppression, Structural Protection, Life Safety, Fire Dynamics, Fire Modeling and more!

On-campus students also get access to Big 10 sports, more than 800 student organizations, and the chance to live and learn just a short metro ride from the Nation's Capital, where federal government agencies and prominent consulting companies hire fire protection engineering students for internships.

## We'll help you land a job

Fire protection engineers are in high demand: job opportunities are available all over Maryland and the world.

There are typically three open positions for every student who graduates from our program. Our graduates' employers include consulting firms, large corporations and government agencies. We have one of the closest-knit, most supportive alumni networks around, and our alumni come back to recruit our students every year.

## We'll help cover the costs

More than 50 scholarships are available for Fire Protection Engineering students. On average, 50% of our undergraduate students are supported by fire protection engineering scholarships. Students also pursue paid internships, part-time positions and research experiences for additional financial support.

While fire protection engineers are not firefighters, some students serve as both. Housing opportunities in firehouses near campus may be available for student firefighters.

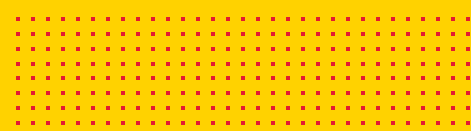


"FPE is a unique engineering community with unlimited opportunities, from evaluating human behavior, to studying properties of fire, to designing fire suppression systems. I love that FPE challenges me as an engineer to innovate systems that save lives!"

**Angelo Capati (Class of 2024)**

"I truly value the high level of care and support I have experienced in this tight-knit department. Faculty, staff, students, and alumni look out for each other. I admire how the department ensures everyone is valued and cared for during their time here and after graduation."

**Lindsay Newman (Class of 2025)**





Register for an  
Information Session  
[go.umd.edu/FPEIS](https://go.umd.edu/FPEIS)

## Connect with UMD FPE!

Scan the QR code to see upcoming information session dates

Or, contact the Fire Protection Engineering department to schedule a visit or meeting with an academic advisor at [enf@umd.edu](mailto:enf@umd.edu) or 301.405.3992

On-campus prospective students: [go.umd.edu/joinfpe](https://go.umd.edu/joinfpe)

Online prospective students: [go.umd.edu/fpeonlinecourses](https://go.umd.edu/fpeonlinecourses)



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