

# FIRE PROTECTION ENGINEERING (ENFP)

Graduate Degree Program  
College: Engineering

## Abstract

The Department of Fire Protection Engineering (FPE) offers a world-class environment for advanced graduate study and research in the broad area of fire safety. The department offers a Master of Science (M.S) degree and a Master of Engineering (M.Eng.) degree. The mission of the FPE Department is to reduce the burden of fire losses on life and property by providing the highest quality of scientifically-based education, research, and outreach in fire protection engineering, and in fire-related safety, health and environmental issues. The FPE graduate program provides the unique interdisciplinary academic foundation and scholarly training needed to address complex engineering problems with emphasis on advancing the field of fire protection engineering.

The educational objectives of the FPE M.S. and M.Eng degree programs are to produce graduates who:

- Have the technical knowledge and skills needed to practice fire protection engineering locally, nationally and internationally in a variety of modern professional settings;
- Have the ability to understand and communicate societal, environmental, economic and safety implications of engineering decisions on the local and global communities;
- Are prepared to participate in the development and promotion of fire protection engineering and assume technical and/or business leadership positions.

Some additional educational objectives specific to the FPE M.S. degree program are to produce graduates who:

- Appreciate the importance of scientific research as a mechanism to strengthen the technical basis of fire protection engineering.
- Have the basic competencies needed to pursue advanced studies (e.g., Ph.D.) in fire protection engineering or related fields.

The program is designed to stimulate intellectual growth, increase the level of objective understanding of the physical world and further develop capabilities for analysis and synthesis in order to produce premier fire safety engineers and/or researchers.

## Financial Assistance

The Department of Fire Protection Engineering offers several types of financial support through various research or teaching assistantships. Students are also encouraged to seek other external funding opportunities, for instance via University of Maryland work-study programs and internships available in fire laboratories and FPE consulting companies in the Baltimore-Washington area. For more details, see the department's graduate guide available at [fpe.umd.edu/graduate](https://fpe.umd.edu/graduate) (<https://fpe.umd.edu/graduate/>).

## Contact

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**Website:** [fpe.umd.edu](https://fpe.umd.edu/) (<https://fpe.umd.edu/>)

**Courses:** ENFP

## ADMISSIONS

### General Requirements

- Statement of Purpose
- Transcript(s)
- TOEFL/IELTS/PTE (international graduate students (<https://gradschool.umd.edu/admissions/english-language-proficiency-requirements/>))

### Program-Specific Requirements

- Letters of Recommendation (3)
- Graduate Record Examination (GRE)
- GRE Subject (optional)
- CV/Resume
- Description of Research/Work Experience (optional)
- Writing Sample (optional)
- Portfolio PDF Upload (optional)

The M.S. and M.Eng. programs are open to qualified students holding a Bachelor of Science (B.S.) degree in engineering, or a related field from an accredited institution. Applicants should have taken the following 4 prerequisite courses: differential equations, fluid mechanics, heat transfer, structural mechanics (or strength of materials). Applicants who have not completed all prerequisites may still be admitted on a provisional basis if they demonstrate satisfactory academic performance in a related field and/or relevant work experience; these applicants may then be asked to complete the prerequisite courses during their first semester at the University of Maryland. In most cases, the application process requires scores from the Graduate Record Examination (GRE).

## Application Deadlines

Type of Applicant	Fall Deadline	Spring Deadline
<b>Domestic Applicants</b>		
US Citizens and Permanent Residents	June 24, 2025	December 13, 2024
<b>International Applicants</b>		
F (student) or J (exchange visitor) visas; A, E, G, H, I and L visas and immigrants	March 7, 2025	September 24, 2024

### RESOURCES AND LINKS:

**Program Website:** <http://www.enfp.umd.edu>

**Application Process:** <https://gradschool.umd.edu/admissions> (<https://gradschool.umd.edu/admissions/>)

## REQUIREMENTS

- Fire Protection Engineering, Master of Science (M.S.) (<https://academiccatalog.umd.edu/graduate/programs/fire-protection-engineering-enfp/fire-protection-engineering-ms/>)

## FACILITIES AND SPECIAL RESOURCES

See <http://www.fpe.umd.edu/research/labs> (<http://www.fpe.umd.edu/research/labs/>) for a description of the experimental and computer laboratories available in the Department of Fire Protection Engineering.