



APPLICATION DEADLINES

DECEMBER 15

MS/PhD, PhD, EngScD

FEBRUARY 15

MS

CONNECT WITH US

APAM Department

✉ apam@columbia.edu

☎ 212-854-4457

Graduate Admissions

✉ seasgradmit@columbia.edu

☎ 212-854-4688

🌐 engineering.columbia.edu

📍 500 W 120th St
New York, NY 10027



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the full program



COLUMBIA ENGINEERING

Department of

Applied Physics and Applied Mathematics

Unique. Insightful. Exploratory.

Modeling ways to predict weather. Decoding the mathematics of cancer. Testing sophisticated solutions for developing nanoscale devices. Pioneering fusion energy. Those are just some of the extraordinary advances made in the APAM Department.



Areas of Study

- Applied Analysis and Computational Mathematics
- Atmospheric Science
- Plasma Physics
- Solid State and Optical Physics



Research Concentraions

- Applied Analysis
- Atmospheric Science
- Computational Mathematics
- Geophysical Fluid Dynamics
- Materials Science and Engineering
- Medical Physics
- Numerical Analysis and Machine Learning
- Optical Physics
- Plasma Physics
- Solid State Physics

Your Future Starts Here

APAM students work across applied physics, applied mathematics, materials science, and medical physics, with opportunities to connect classroom learning to research, industry, and doctoral study.



Career Pathways

- Research and doctoral study
- Academia, finance, and industry
- Scientific computing and data science
- Engineering and applied technology fields



Graduate Degree Programs

Applied Mathematics: **MS, PhD, MS/PhD

Applied Physics: **MS, PhD, MS/PhD, EngScD

Materials Science and Engineering: **MS, PhD, MS/PhD, EngScD

Medical Physics: MS

**Offered online and on-campus

