The A. James Clark School of Engineering is a catalyst for high-quality research, innovation, and learning, providing students the resources to be engaged problem-solvers and entrepreneurial thinkers. Pursue a degree tailored to your career interests through the top-ranking Maryland Applied Graduate Engineering programs.

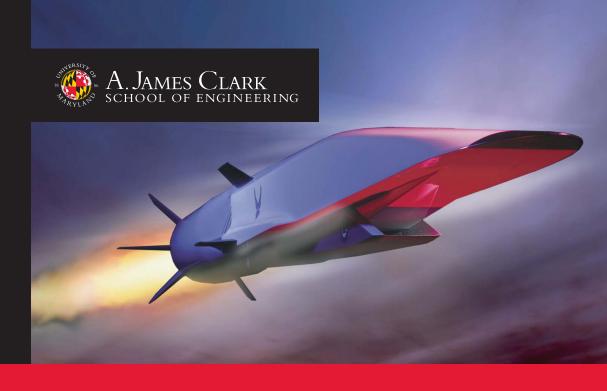
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We welcome your interest. For complete information, including course descriptions, deadlines, and schedules please contact us.

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HYPERSONICS

Accelerate your knowledge of hypersonics applications for your spot in this highly specialized market.

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Offered in partnership with the Department of Aerospace Engineering, one of the nation's leading aerospace programs, this **Graduate Certificate in Engineering** provides students with a deep understanding of the key principles relevant to the flight of high-speed vehicles and projectiles in the atmosphere. Students are introduced to crucial concepts in areas such as hypersonic aerodynamics, high-speed airbreathing propulsion, high-temperature structures and materials, and high-speed guidance, navigation and control. More specialized courses will be offered in important areas such as high-temperature gas dynamics, transition, turbulence, experimental and computational methods, and vehicle design. Students will be introduced to the general concepts of hypersonic flight and gain more specialized knowledge in key areas within the broader hypersonics discipline. This certificate prepares students for careers in hypersonics-related fields in both the commercial and government sectors.

ADMISSION REQUIREMENTS

- A bachelor's degree in a STEM field from an accredited institution
- GPA of 3.0 or better
- Successful completion of calculus I, II, and III, differential equations, and thermodynamics
- Unofficial copies of transcripts

- For international students: an official English proficiency score report
- Official GRE scores considered but not required
- Completed applications considered for admission on a case-by-case basis

DEGREE REQUIREMENTS

GRADUATE CERTIFICATE IN ENGINEERING

4 courses (12 credits)

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or scan here for more specific requirements, available courses, and degree planning sheets.

APPLICATION DEADLINES

ONLINE DOMESTIC AND INTERNATIONAL

FALL July 31
SPRING December 15
SUMMER May 15

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A leader in graduate engineering education for professionals, we are proud to serve the region's engineering community. Through our programs, advance your career with a degree from the A. James Clark School of Engineering, consistently ranked among the top 20 in the U.S. Located just a few miles from Washington, D.C., Maryland Engineering is at the center of a constellation of high-tech companies and federal laboratories, offering students and faculty access to unique professional opportunities.

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