FULL-TIME, ON-CAMPUS UNDERGRADUATE AND GRADUATE PROGRAMS (HOMEWOOD)

About Engineering at Johns Hopkins

Engineering education at Johns Hopkins began with the establishment of an engineering school in 1913. Throughout its history, the Whiting School has maintained close ties with the Krieger School of Arts and Sciences, which has led pioneering education and research since the Faculty of Philosophy was assembled in 1876. The Whiting School of Engineering provides its students with an education and research environment that fosters a lifetime ability to create and apply new knowledge and to contribute to their professions.

The Whiting School offers 10 ABET-accredited programs in engineering leading to the Bachelor of Science degree: biomedical engineering, chemical and biomolecular engineering, civil engineering, computer engineering, computer science, electrical engineering, engineering mechanics, environmental engineering, materials science and engineering, and mechanical engineering. The school also offers B.S. and B.A. degrees in applied mathematics & statistics as well as B.A. degrees in biomedical engineering, computer science, and general engineering. Beginning in the 2022-2023 academic year, the school is also offering a Bachelor of Science degree in Systems Engineering which will seek ABET accreditation when it is eligible to do so.

Our commitment to advanced study and research yields outstanding programs that lead to masters and doctoral degrees. In the descriptions that follow, each department lists its faculty and their research, research facilities, graduate programs, and the elementary and advanced courses they offer. More details can be obtained from the departmental websites, through the Whiting School homepage at http://engineering.jhu.edu (http://engineering.jhu.edu/).

Accreditation

The following Bachelor of Science programs in the Whiting School of Engineering are accredited by the Engineering Accreditation Commission of ABET: Biomedical Engineering, Chemical and Biomolecular Engineering, Civil Engineering, Computer Engineering, Electrical Engineering, Engineering Mechanics, Environmental Engineering, Materials Science and Engineering, and Mechanical Engineering.

The Bachelor of Science program in Computer Science is accredited by the Computing Accreditation Commission of ABET.

Bachelor’s Programs

- Biomedical Engineering, Bachelor of Arts (https://e-catalogue.jhu.edu/engineering/full-time-residential-programs/degree-programs/biomedical-engineering/biomedical-engineering-bachelor-arts/)
- Biomedical Engineering, Bachelor of Science (https://e-catalogue.jhu.edu/engineering/full-time-residential-programs/degree-programs/biomedical-engineering/biomedical-engineering-bachelor-science/)
- Chemical and Biomolecular Engineering, Bachelor of Science (https://e-catalogue.jhu.edu/engineering/full-time-residential-programs/degree-programs/chemical-biomolecular-engineering/chemical-biomolecular-engineering-bachelor-science/)
- Civil Engineering, Bachelor of Science (https://e-catalogue.jhu.edu/engineering/full-time-residential-programs/degree-programs/civil-engineering/civil-engineering-bachelor-science/)
- Computer Engineering, Bachelor of Science (https://e-catalogue.jhu.edu/engineering/full-time-residential-programs/degree-programs/electrical-computer-engineering/computer-engineering-bachelor-science/)
- Computer Science, Bachelor of Arts (https://e-catalogue.jhu.edu/engineering/full-time-residential-programs/degree-programs/computer-science/computer-science-ba/)
- Computer Science, Bachelor of Science (https://e-catalogue.jhu.edu/engineering/full-time-residential-programs/degree-programs/computer-science/computer-science-bs/)
- Electrical Engineering, Bachelor of Arts (https://e-catalogue.jhu.edu/engineering/full-time-residential-programs/degree-programs/electrical-computer-engineering/electrical-engineering-bachelor-arts/)
- Electrical Engineering, Bachelor of Science (https://e-catalogue.jhu.edu/engineering/full-time-residential-programs/degree-programs/electrical-computer-engineering/electrical-engineering-bachelor-science/)
- Engineering Mechanics, Bachelor of Science (https://e-catalogue.jhu.edu/engineering/full-time-residential-programs/degree-programs/mechanical-engineering/engineering-mechanics-bachelor-science/)
- Environmental Engineering, Bachelor of Science (https://e-catalogue.jhu.edu/engineering/full-time-residential-programs/degree-programs/environmental-health-engineering/environmental-engineering-bachelor-science/)
- General Engineering, Bachelor of Arts (https://e-catalogue.jhu.edu/engineering/full-time-residential-programs/degree-programs/general-engineering/general-engineering-bachelor-arts/)
- Materials Science and Engineering, Bachelor of Science (https://e-catalogue.jhu.edu/engineering/full-time-residential-programs/degree-programs/materials-science-engineering/materials-engineering-bachelor-science/)
- Mechanical Engineering, Bachelor of Science (https://e-catalogue.jhu.edu/engineering/full-time-residential-programs/degree-programs/mechanical-engineering/mechanical-engineering-bachelor-science/)
- Systems Engineering, Bachelor of Science (https://e-catalogue.jhu.edu/engineering/full-time-residential-programs/degree-programs/civil-engineering/systems-engineering-bachelor-science/)

Minors

- Biomedical Engineering, Minor (https://e-catalogue.jhu.edu/engineering/full-time-residential-programs/degree-programs/biomedical-engineering/biomedical-engineering-minor/)
- Chemical and Biomolecular Engineering, Minor (https://e-catalogue.jhu.edu/engineering/full-time-residential-programs/degree-programs/chemical-biomolecular-engineering/chemical-biomolecular-engineering-minor/)
- Civil Engineering, Minor (https://e-catalogue.jhu.edu/engineering/full-time-residential-programs/degree-programs/civil-engineering/civil-engineering-minor/)
- Computer Engineering, Minor (https://e-catalogue.jhu.edu/engineering/full-time-residential-programs/degree-programs/computer-engineering/computer-engineering-minor/)
- Computer Science, Minor (https://e-catalogue.jhu.edu/engineering/full-time-residential-programs/degree-programs/computer-science/computer-science-minor/)
- Electrical Engineering, Minor (https://e-catalogue.jhu.edu/engineering/full-time-residential-programs/degree-programs/electrical-engineering/electrical-engineering-minor/)
- Environmental Engineering, Minor (https://e-catalogue.jhu.edu/engineering/full-time-residential-programs/degree-programs/environmental-health-engineering/environmental-engineering-minor/)
- General Engineering, Minor (https://e-catalogue.jhu.edu/engineering/full-time-residential-programs/degree-programs/general-engineering/general-engineering-minor/)
- Mechanical Engineering, Minor (https://e-catalogue.jhu.edu/engineering/full-time-residential-programs/degree-programs/mechanical-engineering/mechanical-engineering-minor/)
- Systems Engineering, Minor (https://e-catalogue.jhu.edu/engineering/full-time-residential-programs/degree-programs/civil-engineering/systems-engineering-minor/)
- Biomedical Engineering, Minor (https://e-catalogue.jhu.edu/engineering/full-time-residential-programs/degree-programs/biomedical-engineering/biomedical-engineering-minor/)
- Chemical and Biomolecular Engineering, Minor (https://e-catalogue.jhu.edu/engineering/full-time-residential-programs/degree-programs/chemical-biomolecular-engineering/chemical-biomolecular-engineering-minor/)
- Civil Engineering, Minor (https://e-catalogue.jhu.edu/engineering/full-time-residential-programs/degree-programs/civil-engineering/civil-engineering-minor/)
- Computer Engineering, Minor (https://e-catalogue.jhu.edu/engineering/full-time-residential-programs/degree-programs/computer-engineering/computer-engineering-minor/)
- Computer Science, Minor (https://e-catalogue.jhu.edu/engineering/full-time-residential-programs/degree-programs/computer-science/computer-science-minor/)
- Electrical Engineering, Minor (https://e-catalogue.jhu.edu/engineering/full-time-residential-programs/degree-programs/electrical-engineering/electrical-engineering-minor/)
- Environmental Engineering, Minor (https://e-catalogue.jhu.edu/engineering/full-time-residential-programs/degree-programs/environmental-health-engineering/environmental-engineering-minor/)
- General Engineering, Minor (https://e-catalogue.jhu.edu/engineering/full-time-residential-programs/degree-programs/general-engineering/general-engineering-minor/)
- Mechanical Engineering, Minor (https://e-catalogue.jhu.edu/engineering/full-time-residential-programs/degree-programs/mechanical-engineering/mechanical-engineering-minor/)
- Systems Engineering, Minor (https://e-catalogue.jhu.edu/engineering/full-time-residential-programs/degree-programs/civil-engineering/systems-engineering-minor/)
programs/leadership-education/accounting-financial-management-minor/)

- Civil Engineering, Minor (https://e-catalogue.jhu.edu/engineering/full-time-residential-programs/degree-programs/civil-engineering/minor/)
- Computational Medicine, Minor (https://e-catalogue.jhu.edu/engineering/full-time-residential-programs/degree-programs/computational-medicine/computational-medicine-minor/)
- Computer Science, Minor (https://e-catalogue.jhu.edu/engineering/full-time-residential-programs/degree-programs/computer-science/computer-science-minor/)
- Energy, Minor (https://e-catalogue.jhu.edu/engineering/full-time-residential-programs/degree-programs/electrical-computer-engineering/energy-minor/)
- Entrepreneurship and Management, Minor (https://e-catalogue.jhu.edu/engineering/full-time-residential-programs/degree-programs/leadership-education/entrepreneurship-management-minor/)
- Environmental Engineering, Minor (https://e-catalogue.jhu.edu/engineering/full-time-residential-programs/degree-programs/environmental-health-engineering/environmental-engineering-minor/)
- Environmental Sciences, Minor (https://e-catalogue.jhu.edu/engineering/full-time-residential-programs/degree-programs/environmental-health-engineering/environmental-sciences-minor/)
- Leadership Studies, Minor (https://e-catalogue.jhu.edu/engineering/full-time-residential-programs/degree-programs/leadership-education/leadership-studies/)
- Marketing and Communications, Minor (https://e-catalogue.jhu.edu/engineering/full-time-residential-programs/degree-programs/leadership-education/marketing-communications/)
- Robotics, Minor (https://e-catalogue.jhu.edu/engineering/full-time-residential-programs/degree-programs/robotics-computational-sensing/robotics-minor/)
- Space Science and Engineering, Minor (https://e-catalogue.jhu.edu/arts-sciences/full-time-residential-programs/degree-programs/space-science-engineering/space-science-engineering-minor/)

**Systems Engineering, Minor (newly approved for Fall 2023, information coming soon)**

### Non-Degree Programs

- Computational Medicine, Pre-Doctoral Training Program (https://e-catalogue.jhu.edu/engineering/full-time-residential-programs/degree-programs/computational-medicine/computational-medicine-pre-doctoral-training-program/)
- Professional Communication Program (https://e-catalogue.jhu.edu/engineering/full-time-residential-programs/degree-programs/leadership-education/professional-communication/)
- Professional Development Program (https://e-catalogue.jhu.edu/engineering/full-time-residential-programs/degree-programs/leadership-education/professional-development/)

### Master's Programs

- Bioengineering Innovation and Design, Master of Science in Engineering (https://e-catalogue.jhu.edu/engineering/full-time-residential-programs/degree-programs/biomedical-engineering/innovation-design-master-science-engineering/)
- Biomedical Engineering, Master of Science in Engineering (https://e-catalogue.jhu.edu/engineering/full-time-residential-programs/degree-programs/biomedical-engineering/biomedical-engineering-master-science-engineering/)
- Chemical and Biomolecular Engineering, Master of Science in Engineering (https://e-catalogue.jhu.edu/engineering/full-time-residential-programs/degree-programs/chemical-biomolecular-engineering/chemical-biomolecular-engineering-master-science-engineering/)
- Civil Engineering, Master of Science in Engineering (MSE) (https://e-catalogue.jhu.edu/engineering/full-time-residential-programs/degree-programs/civil-engineering/civil-engineering-mse/)
- Computer Science, Master of Science in Engineering (https://e-catalogue.jhu.edu/engineering/full-time-residential-programs/degree-programs/computer-science/computer-science-master-science-engineering/)
- Data Science, Master’s Degree (https://e-catalogue.jhu.edu/engineering/full-time-residential-programs/degree-programs/applied-mathematics-statistics/data-science-masters-degree/)
- Electrical and Computer Engineering, Master of Science in Engineering (https://e-catalogue.jhu.edu/engineering/full-time-residential-programs/degree-programs/electrical-computer-engineering/electrical-computer-master-science-engineering/)
- Geography and Environmental Engineering, Master of Science in Engineering (https://e-catalogue.jhu.edu/engineering/full-time-residential-programs/degree-programs/environmental-health-engineering/environmental-health-engineering-master-science/)
residential-programs/degree-programs/environmental-health-engineering/environmental-health-master-science-engineering/)

- Global Innovation and Leadership, Master of Science (https://e-catalogue.jhu.edu/engineering/full-time-residential-programs/degree-programs/leadership-education/global-innovation-leadership-engineering-master-science/)
- Robotics, Master of Science in Engineering (https://e-catalogue.jhu.edu/engineering/full-time-residential-programs/degree-programs/robotics-computational-sensing/robotics-master-science-engineering/)
- Security Informatics, Master of Science/Computer Science, Master of Science in Engineering Dual Master's Program (https://e-catalogue.jhu.edu/engineering/full-time-residential-programs/degree-programs/information-security-institute/security-informatics-master-science-computer-science-engineering-dual-program/)
- Systems Engineering, Master of Science in Engineering (MSE) (https://e-catalogue.jhu.edu/engineering/full-time-residential-programs/degree-programs/civil-engineering/systems-engineering-mse/)
- Computer Science, PhD (https://e-catalogue.jhu.edu/engineering/full-time-residential-programs/degree-programs/computer-science/computer-science-phd/)
- Electrical and Computer Engineering, PhD (https://e-catalogue.jhu.edu/engineering/full-time-residential-programs/degree-programs/electrical-computer-engineering/electrical-computer-engineering-phd/)
- Engineering, Doctor of Engineering (https://e-catalogue.jhu.edu/engineering/full-time-residential-programs/degree-programs/doctor-engineering/engineering-doctor/)
- Geography and Environmental Engineering, PhD (https://e-catalogue.jhu.edu/engineering/full-time-residential-programs/degree-programs/environmental-health-engineering/environmental-health-engineering-phd/)
- Mechanical Engineering, PhD (https://e-catalogue.jhu.edu/engineering/full-time-residential-programs/degree-programs/mechanical-engineering/mechanical-engineering-phd/)

Dual Programs

- Security Informatics, Master of Science/Computer Science, Master of Science in Engineering Dual Master’s Program (https://e-catalogue.jhu.edu/engineering/full-time-residential-programs/degree-programs/information-security-institute/security-informatics-master-science-computer-science-engineering-dual-program/)

Whiting School of Engineering Leadership

Ed Schlesinger
Benjamin T. Rome Dean

Hedy Alavi
Assistant Dean for International Programs

James Aumiller
Senior Associate Dean for Strategic Initiatives

Kimberley Bassett
Assistant Dean for Undergraduate Academic Advising

Harry K. Charles, Jr.
Associate Dean for Non-Residential Graduate Education

Chad Clapsaddle
Senior Associate Dean for Finance and Administration

Andrew Douglas
Executive Vice Dean

Michael Falk
Vice Dean for Undergraduate Education

Joy Goswami
Senior Director of Corporate Engagement
Nathan Graham  
*Assistant Dean for Media and Technology*

Daniel Horn  
*Associate Vice Dean for Professional Education and Lifelong Learning*

Megan Howie  
*Associate Dean for External Relations*

Paul Huckett  
*Assistant Dean for Learning Design and Innovation*

Christine Kavanagh  
*Associate Vice Dean for Graduate Education and Lifelong Learning*

Khusro Kidwai  
*Associate Dean for Lifelong Learning*

Mary Kay LeMay  
*Assistant Dean for Marketing and Communications*

Constanza Miranda  
*Assistant Dean for Faculty Undergraduate Mentoring*

Larry Nagahara  
*Vice Dean for Research and Translation*

Alisha Sparks  
*Interim Executive Director, Center for Educational Outreach*

Darlene Saporu  
*Assistant Dean for Diversity and Inclusion, Whiting School of Engineering*

Sridevi Sarma  
*Vice Dean for Graduate Education and Lifelong Learning*

Edward R. Scheinerman  
*Vice Dean for Faculty*

Janet Weise  
*Associate Dean for Undergraduate Academic Affairs*

Full Faculty directory may be found on the Faculty Directory (https://engineering.jhu.edu/faculty/) page.