

Changing the world...

At the Johns Hopkins University, the Whiting School of Engineering is improving people's lives, solving the problems of a new century, and pushing the boundaries of research and education.

We are a community of some of the world's most inventive minds—and our impact on society is profound.

Whether in the lab, the classroom, or the school's more than 20 research centers and institutes, Hopkins engineers are taking on the tough questions, working across traditional disciplines, promoting innovative and independent thinking, academic excellence, and preparing students to be leaders in all walks of life.

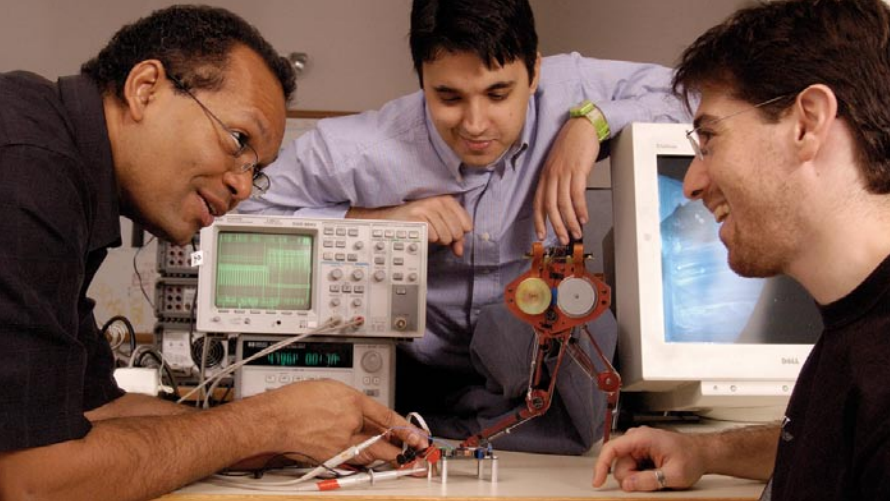
The Whiting School of Engineering provides:

- Research for the betterment of society,
- An education that prepares students to solve the complex, technology-based problems of the 21st century and instills in them an entrepreneurial spirit and a love of learning,
- And the world's next generation of engineering leadership.

Under the leadership of Dean Nicholas Jones, the school has defined a strategic plan. In order to achieve the goals of the strategic plan and realize the vision of *Leadership through Innovation*, we will focus on four inter-connected priority areas:

- **Bioengineering**
- **Collaboration and Innovation**
- **Education for Leadership**
- **Strategic Partnerships**

The Whiting School's continued success will be achieved through the support and involvement of our students, alumni, faculty, staff, and friends who share our commitment to excellence.



Collaboration and Innovation

We will provide a supportive, entrepreneurial and collaborative atmosphere that encourages and rewards innovation and excellence.

When engineers, scientists, doctors think in new ways, conduct collaborative research and draw upon each others' strengths and expertise, the potential for true breakthroughs—the kinds of discoveries that have a real and positive impact on people's lives—tend to occur.

Johns Hopkins Engineering has always embraced the opportunities that exist at the intersection of scientific and technological disciplines, examples of which abound in environmental and materials engineering, robotics, fluid mechanics, and computer science. From developing alternative energy sources and managing threats to the environment to the continued exploration of space, national security, and disaster preparedness, engineers are working collaboratively with researchers and scientists across disciplines. These creative partnerships will enable our students and faculty to look beyond the traditional boundaries of engineering to find innovative solutions to contemporary problems.

Using our successful collaborative programs in bioengineering as a model, we will create new facilities and support the formation of new interdepartmental and interdivisional collaborations and research centers and institutes across the School of Engineering and other university divisions, including the schools of Arts and Sciences, Medicine, Public Health, and Nursing.



Bioengineering

We will enhance and broaden our position as the preeminent bioengineering program in the country and the world.

Johns Hopkins University is recognized world-wide for its achievements in bioengineering, the life sciences, medicine, and public health.

Currently, the School of Engineering is engaged in a variety of bold new ventures that address challenges within bioengineering and provide solutions some of today's most difficult issues related to causes and treatment of human diseases. These multi-disciplinary ventures—which bring together Engineering faculty and students with collaborators from other Johns Hopkins divisions and industry—are now under way among researchers in a variety of research centers and institutes, including the new the Institute for Computational Medicine and the Institute for NanoBioTechnology.

We will expand our bioengineering activities through strategic faculty hiring and the establishment of new research institutes and centers in collaboration with the Schools of Medicine, Public Health, and Arts and Sciences. We will support research in a broad range of areas, from heart and autoimmune diseases to cancer and neuropsychiatric disorders.



Education for Leadership

We will train future leaders by providing students with an innovative and distinctive education of the finest quality, at both at the undergraduate and graduate level, in a diverse and inclusive environment.

The Whiting School of Engineering provides students with the depth and breadth of knowledge that need to be leaders in all walks of life.

Engineering students at Johns Hopkins are immersed in a remarkable, collaborative environment—one that blends a rigorous academic program with cutting-edge research and combines an unparalleled education in engineering's fundamental principles with scholarly exploration in the humanities, social sciences, entrepreneurship, and the arts. The school's full- and part-time academic programs draw upon the intellectual capital and resources of one of the nations premiere research universities and combine these resources with an understanding of what it means to be a practicing engineer today.

We will continue to build upon the strength of our partnerships with other university divisions, particularly the School of Arts and Sciences, to develop a signature undergraduate education program of the highest quality. We will invest in new initiatives and collaborations that will enable students to expand their knowledge of the liberal arts, take part in international experiences, and that will promote cross-divisional research and learning. At the graduate level, we will offer a five-year Bachelors/Masters degree in Engineering Management, thus expanding academic opportunities for undergraduates and providing full- and part-time Master's degree students with a greater depth of technical training and a strong foundation in business, management, and entrepreneurship.

Strategic Partnerships

We will expand our role with respect to international and corporate programs and partnerships in order to mobilize, as never before, world-wide intellectual and technical resources in both education and research.

Today's global society has created a demand for engineers who are trained to solve problems within an international context. For the past 100 years, Johns Hopkins has led many of the advancements in science, technology, and engineering that have made a real and positive impact on people's lives.

Forging strategic alliances with key corporate partners, facilitating mutually beneficial relationships with peer institutions around the world, and providing outreach to underserved populations and other institutions of learning will allow us to use our knowledge and resources to continue to improve our world and maintain Johns Hopkins Engineering's leadership role in the global advancement of new research and technologies.

We will pursue mutually beneficial relationships with national and international corporations and academic partners, create opportunities for student internships and international experiences, and support faculty exchange programs and sponsored and collaborative research. Additionally, ensuring a robust supply of future students and professionals requires us to continue and expand our efforts to develop effective K-12 outreach programs at the national level and promote the inclusion of traditionally underrepresented groups in engineering.

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