

PURDUE SCHOOL OF  
ENGINEERING AND  
TECHNOLOGY AT IUPUI



# THE PURDUE SCHOOL OF ENGINEERING AND TECHNOLOGY AT IUPUI IS HIGHLY REGARDED AROUND THE WORLD FOR EXCELLENCE IN TEACHING, RESEARCH, AND CIVIC ENGAGEMENT.

*Our students, faculty members, and alumni develop life-changing medical devices, engineer improvements in transportation, pioneer advances in communication, and in the spirit of innovation, establish companies.*

Although we're less than 50 years old, we have quickly built a strong reputation and are now one of the highest-ranked urban, public engineering schools in the nation.

But if we are to continue to epitomize excellence in engineering and technology, we must further strengthen our standing as an international pacesetter. We must attract and retain the very best students and faculty. And we must provide the resources and infrastructure to advance ourselves as a leader in cutting-edge research.

We are committed to raising critical private support to realize these goals. With your help, we can sustain our current high rankings and gain further esteem. Even more important, we can continue to develop top engineers and technologists who will improve human life by transforming key elements of civil society—including health, transportation, communication, and commerce.

**Together, we can fulfill the promise of creating technologically advanced communities, a stronger state, and a better world.**



GOAL #1

# RECRUIT, RETAIN, AND REWARD TOP FACULTY

Faculty members are the heart of any great institution. At the Purdue School of Engineering and Technology at IUPUI, they invent and reinvent the structural components of human civilization in their pursuit of progress. They prepare our next generation of professionals to shape society. They act as a vital resource to our corporate partners, as well as state and federal agencies. Through their teaching and mentorship, these remarkable people will shape their fields of expertise for decades and beyond.

Their research—and the application of their discoveries—helps improve and even save lives. For example, innovations in pedestrian crash-test mannequins and roll-cage design are having an immediate influence in developing safer vehicles. Our faculty are also involved in creating a reversible dynamic hydrogel system for studying stemness and drug responsiveness of cancer stem cells. Day in and day out, these educators and researchers are making a positive difference in the lives of many.

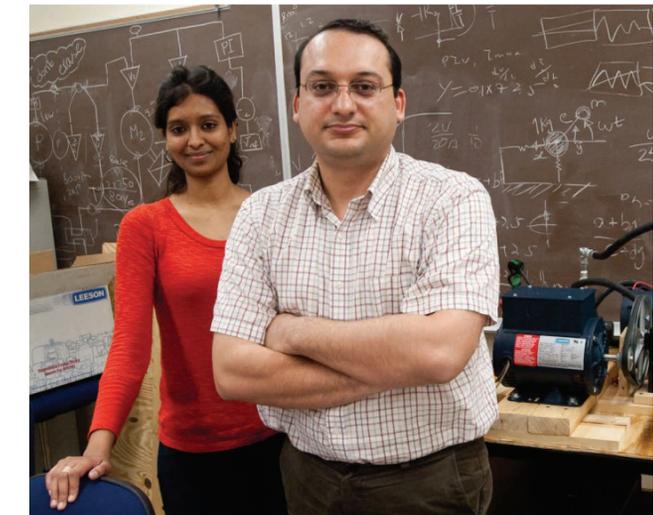
We must come together to support the work of these excellent individuals. And in a highly competitive market, endowed chairs and professorships represent our most effective method for doing so.

## ENDOWED CHAIRS

Attracting and retaining top faculty is at the core of building strong, nationally ranked academic programs. Endowed positions offer our current professors and new recruits the freedom to perform leading research, while enhancing the student experience in the classroom and laboratory. We have seen unprecedented success with the Thomas J. Linnemeier Guidant Foundation Chair in Biomedical Engineering. And today, we seek to establish a second endowed chair in biomedical engineering, creating even more opportunities for our faculty to advance this possibility-rich field.

## FACULTY PROFESSORSHIPS

To achieve the academic excellence we aspire to, we must add to our community of exceptional educators. Faculty professorships provide salary supplements and allow for more discretionary spending, ultimately leading to better recruitment and retention of these formidable talents. With this in mind, we would like to create three new professorships, in electrical and computer engineering, mechanical engineering, and motorsports engineering.



IT STARTS  
WITH YOU

Endowed chairs and faculty professorships help us attract and retain top researchers and teachers, advancing education and discovery across all fields of engineering and technology.

**GOAL #2**

# **INCREASE STUDENT SUPPORT AND SUCCESS**



**→ IT STARTS  
WITH YOU ←**

**Undergraduate scholarships and graduate fellowships attract the best and brightest students, improving our reputation, enhancing our research productivity, and strengthening our programs.**

The incredible strides we make will not matter if our students and their families cannot afford a higher education. We must open our doors to tomorrow's engineers, regardless of their means. As it stands, too many must interrupt their education to make ends meet. Together, we have the power to break this cycle.

You can help us draw exceptionally talented individuals to the Purdue School of Engineering and Technology at IUPUI and sustain their success. Take for example Aaron Kreutzjans, a Chancellor's Scholarship recipient and president of our chapter of Pi Tau Sigma, the mechanical engineering honor society. As a regional representative and spokesperson for the "Dream It, Do It" campaign, his aim is to educate Americans about the manufacturing industry, correcting misperceptions and inspiring next-generation workers to pursue manufacturing careers.

Another example is Gillian Bundles, a 21st Century Scholar recipient. Bundles biggest accomplishment was overcoming homelessness and not letting it define her. She was able to get a head start on her IUPUI career, working with Engineering and Technology faculty member Andres Tovar in the Diversity Research Scholars Program.

We must attract even more scholars like these and support their educational process from start to finish. Together, we can ensure that all deserving students have the opportunity to fully develop their talents for the benefit of our communities, our state, and our nation.

## **UNDERGRADUATE STUDENT SCHOLARSHIPS**

Need- and merit-based support is the strongest tool we have to attract talented and diverse individuals from every walk of life, economic background, and culture. A dynamic student body raises the level of discovery and innovation in the classroom and creates an international context that mirrors our global environment.

## **GRADUATE STUDENT FELLOWSHIPS**

With your gift toward graduate fellowships, we can extend the opportunity for a world-class education to more individuals with the ability and the ambition. This in turn enhances our research productivity, strengthens our undergraduate programs, and increases our rankings.

Your gift to the

**PURDUE SCHOOL OF  
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supports interdisciplinary,  
collaborative **RESEARCH  
CENTERS** like

**WHERE  
TECHNOLOGY, RESEARCH,  
AND EDUCATION  
CONVERGE**

THE RICHARD G. LUGAR  
CENTER FOR  
**RENEWABLE  
ENERGY**

to create solutions for  
**CLEAN,  
SUSTAINABLE  
POWER  
SOURCES**

TRAINING THE INDUSTRY'S  
**FUTURE EFFICIENCY  
MANAGERS AND  
EXPERTS**

**ADDRESSING  
SOCIETY'S NEEDS**

**IMPROVING  
OUR ENERGY  
SECURITY**

**MITIGATING  
THE EFFECTS OF  
CLIMATE CHANGE AND**

and providing audits  
and plans to reduce  
energy use by  
**INDIANA  
MANUFACTURERS  
AND COMPANIES**

**LEADING THE  
NATION TO A  
NEW ENERGY  
FUTURE**



**GOAL #3**

# SUPPORT THE STUDENT INNOVATION FUND

The Purdue University School of Engineering and Technology focuses on producing the next great wave of engineers: those who will answer complex, interdisciplinary problems, and who will discover the solutions to the increasingly global challenges confronting business and industry. Through the Student Innovation Fund, we can propel our scholars forward, enabling them to experience innovation and entrepreneurship as part of their undergraduate curriculum.

The purpose of the fund is to provide a resource for future engineers who have creative, cutting-edge projects they wish to pursue. Most of these initiatives are multidisciplinary in nature, partnering with local nonprofits, businesses, or campus organizations. We draw on successful relationships with industry leaders to create opportunities for our students' growth and future success.

With your help, we will create two new Student Innovation Funds—one encompassing our entire

engineering and technology community, and one specifically for our motorsports engineering program. These funds will foster a culture of creative exploration, both in and out of the classroom.

While still undergrads, Kirk Barber and Paul Lucas partnered to help design a state-of-the-art Top Fuel chassis, allowing Indiana dragster driver Cory McClenathan to set a new land-speed record.

By creating new funds in these areas, we can help enterprising students gain entrepreneurial experience turning creative, multidisciplinary, and collaborative project ideas into reality. Together, we can give even more individuals like Barber and Lucas the opportunity to explore their potential and translate their learning to practical applications.

→ **IT STARTS  
WITH YOU** ←

The Student Innovation Fund helps tomorrow's enterprising engineers gain entrepreneurial experience as they bring their creative and collaborative ideas to life.

*“We’ve been working with IUPUI, and those kids are just unbelievable when it comes to aerodynamics and how a chassis should work.”*

—Cory McClenathan  
Don Schumacher Racing



GOAL #4

# EXPAND AND ENHANCE FACILITIES



*“It is quite crucial to ensure we maintain and expand our state-of-the-art facilities on campus. These centralized facilities shape the faculty and student experience by providing an open and inviting environment that students and researchers can work collaboratively in.”*

—Ali Jafari, Director of Cyberlab/Professor of Computer Information Technology

To continue to progress, the world needs gifted engineers who work at the leading edge of new developments. Having classrooms, laboratories, and equipment that model today’s real-world situations is fundamental to a successful engineering and technology education. When facilities take full advantage of technological advances and promote entrepreneurship, learning becomes an interactive process between faculty and students—and students become the next generation of world-changing engineers.

With your assistance, we can offer the facilities, the resources, and the technology that will support our expanding research agenda and empower us to lead in our fields on a global scale.

## STEM GATEWAY BUILDING

With the STEM Gateway Building, we’re seeking to create a space for research and learning for both the School of Engineering and Technology and the School of Science. In addition, we’re looking to provide a central location for all STEM services, including academic advising, student services, and career services.

With your support, we can provide the space and resources needed to help address the growing concerns that our nation prepares too few students, teachers, and practitioners in the STEM disciplines.

## IT CORPORATE TESTING AND EVALUATION CENTER

The model for the IT Corporate Testing and Evaluation Center is to take the CyberLab concept in the Science and Engineering Laboratory Building and extend it across several IT-related disciplines throughout IUPUI. With a new building, the center would establish space for interdisciplinary collaboration and learning among faculty and students, ultimately serving as a catalyst for boosting the campus’s research portfolio.

With your gift, we can create a world-class center that will facilitate advanced, interdisciplinary thinking and ultimately foster innovations that change the landscape of corporate IT.

IT STARTS WITH YOU

State-of-the-art facilities attract exceptional faculty and students, and serve to promote essential learning, research, and discovery across a variety of fields.



# WE HAVE THE POWER TO ADVANCE ENGINEERING AND TECHNOLOGY.

We have the power to strengthen every level of society and change the way we live. We are poised to transform tomorrow's world through our groundbreaking research, creative projects, civic engagement, and outstanding education. Our students and faculty will redefine the future. But only with your help.

With your help, we will support their success at every level. We will recruit more teachers, mentors, and researchers of the highest caliber. We will equip our students with the knowledge and skills to succeed in the decades to come. We will pave the way for the next great generation of innovators—those who will shape our world for the better.

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FULFILLING *the* PROMISE

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