

Biomedical, Industrial & Human Factors Engineering Newsletter



Chair's Note

Welcome to Fall '23 Newsletter. As we close the semester, I am grateful and thankful to my staff, faculty, students, and their family for being there with us and for working towards student success. I hope you find the newsletter informative. Whether you are a prospective student or parent, an alumni, industry partner, or just interested please don't hesitate to reach out to us.

Sincerely,
Subhashini Ganapathy
Professor & Chair



Building a brighter future

Wright State University's [Department of Biomedical, Industrial and Human Factors Engineering](#) (BIE) has launched a fundraising campaign to support student success.

“Like the majority of Wright State students, BIE students often work their way through school in order to finance their educations. Many of them are first-generation college students,” said

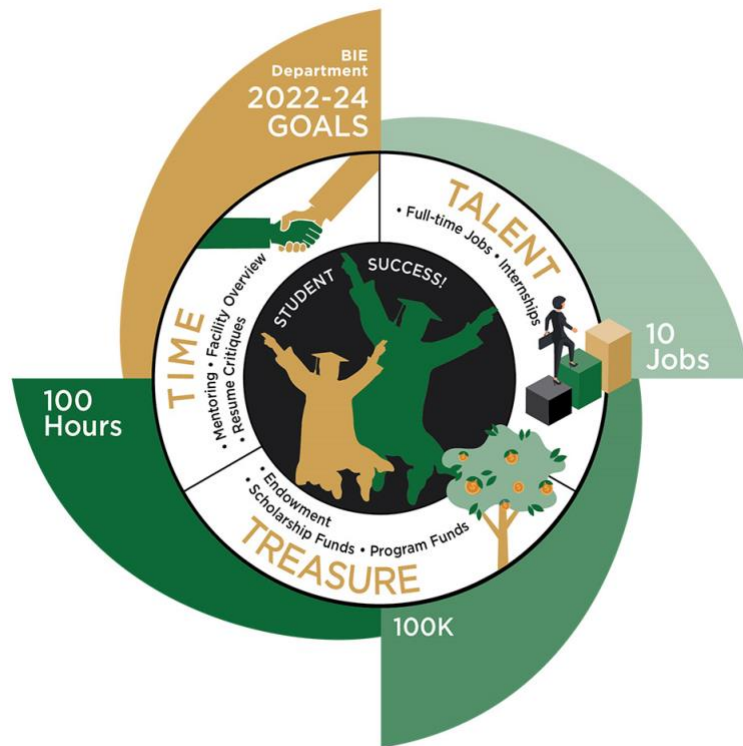
Subhashini Ganapathy,
Ph.D., professor and chair of
the Department of
Biomedical, Industrial and
Human Factors Engineering.
“Internships, experiential
learning opportunities, career
mentorship — as well as
financial support — are critical
to helping our students focus
more on their studies and
graduate with less of a
financial burden.”

“We are committed to helping
our students succeed while
also pursuing our vision to be
nationally recognized for
excellence in education and for cutting-edge BIE research,” Ganapathy said. “These are the
driving forces behind our BIE Student Success Campaign.”

Supporters of the [BIE Student Success Campaign](#) are encouraged to contribute their time,
talent or treasure.

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- Time — The department is looking for volunteers to commit 100 hours to mentoring students in biomedical, industrial and human factors engineering career-related activities. Participating in speaking engagements, resume critiques and mock interviews are a few ways in which volunteers can engage with students.
- Talent — The department hopes to place at least 10 biomedical, industrial and human factors engineering students in new internships and jobs with local industry partners.
- Treasure — The department has set a goal to raise \$100,000 in support of student success, recruitment and retention. Fundraising priorities include scholarships, student



competitions and professional development, as well as other strategic initiatives to help meet students' needs. [Read more](#)



2022–23 Brage Golding Distinguished Professor of Research

Sherif M. Elbasiouny, Ph.D., director of neuroengineering education and research, director of the Ph.D. in Engineering Program, and professor of [neuroscience, cell biology and physiology](#), received the 2022–23 Brage Golding Distinguished Professor of Research Award.

Elbasiouny is pursuing cutting-edge neuroscience research encompassing innovative cross-disciplinary areas that has the potential to impact human disease in phenomenal ways — including devastating diseases such as amyotrophic lateral sclerosis (ALS). He also excels at educating and training the next generation of neuroengineers. Elbasiouny is a unique member of Wright State University's research community, with joint appointments in the [Boonshoft School of Medicine](#), the [College of Science and Mathematics](#), and the [College of Engineering and Computer Science](#), where he is also a



professor in the [Department of Biomedical, Industrial and Human Factors Engineering](#). “He is truly the epitome of the mission and vision of the interdisciplinary neuroscience engineering collaboration initiative that led to the construction of the Neuroscience Engineering Collaboration Building on campus,” said Eric Bennett, Ph.D., professor and chair of neuroscience, cell biology and physiology. [Read more](#)

Wright State offering new microcredential engineering courses

Students and professional engineers can develop new skills to enhance user experiences and quality assurance through one-semester microcredential courses at Wright State University.

Microcredential courses are designed for students or professionals who want to do upskilling or reskilling activities. For instance, microcredentials could appeal to someone who wants to learn new skills to shift the focus of their job and change careers.

The courses — Six Sigma Green Belt and Introduction to User Experience (UX) and Design Thinking— are offered by the [Department of Biomedical, Industrial and Human Factors Engineering](#) in the [College of Engineering and Computer Science](#).

Students who complete the Six Sigma Green Belt microcredential course will receive a green belt certificate while learning how to improve processes by reducing defects and errors, minimizing variation, and increasing quality and efficiency. Six Sigma tools are used in many industries, including manufacturing and health care. Green belt certification is often required for many engineering roles. The course is offered during the Fall Semester.

Introduction to User Experience and Design Thinking will give students a foundation in designing system interfaces, understanding how users experience a product or website, and using tools to design and assess systems. The course is offered during the Spring Semester and is part of the [User Experience and Design Thinking Graduate Certificate](#).

Both graduate microcredentials are three credit hours and can be taken in person or fully online. The courses are also part of Wright State's [Master of Science in Industrial And Human Factors Engineering Program](#).

Those who complete each course will receive a digital badge. [Read more](#)

Wright State, Central State collaborating to host Intel Summer Internship Program for underrepresented populations

Wright State University, in partnership with Central State University, hosted a paid Intel Summer Internship Program for women and other underrepresented populations from June 5 to July 28, 2023 as part of the Intel Semiconductor Education and Research Program for Ohio funding.

The program is part of a collaboration between Wright State and Central State to help build a semiconductor educational program and microelectronics lab and provide experiential learning opportunities for students.

Wright State is a key participant in two of six awards to Ohio colleges and universities by the Intel Corporation, which is building two chip factories near Columbus. This includes a \$17.7 million, three-year investment awarded to Central State from Intel in 2022.

“This camp offers a unique opportunity for semiconductor curriculum development and training for diverse, minority and K-12 students in Ohio,” said Fathi Amsaad, Ph.D., assistant professor of computer science at Wright State. “We aim to provide unique experiential learning opportunities for underrepresented and K-12 students as a step forward to bridge the gap and respond to the urgent need from Intel cooperation, AFRL and other semiconductor industry.” We are looking forward to offering it next year, [Read more.](#)

