Investment in innovation

The Chemical and Biomolecular Engineering and Chemistry Building (CBEC) represents Ohio State’s bold investment in creating a state-of-the-art, collaborative environment for 21st century teaching and research. The new facility expands real-world learning opportunities by creating innovation-rich environments that support advanced research and teaching programs. It advances critical research and fuels Ohio’s economy through industry partnerships. With communal laboratory neighborhoods, CBEC includes research space for more than 400 engineers and scientists.

“With areas optimized for collaboration, top-notch research facilities and premiere learning spaces, this building is the ideal environment for future engineering and science leaders to thrive,” said Dean David B. Williams. “CBEC is our investment in innovation.”

During the grand opening celebration in April, President Michael V. Drake noted that CBEC sets a new precedent for interdisciplinary collaboration at Ohio State by bringing together the William G. Lowrie Department of Chemical and Biomolecular Engineering and the Department of Chemistry and Biochemistry.

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You outpace your training after a few years,” Brunelli explained. “So...
You outpace your training after a few years," Brunelli explained. "So going to a modern facility just makes a huge difference," said The 237,000-square-foot building also provides the modern research environment. Consider the teamwork between Assistant Professors Nick Chemical and Biomolecular Engineering Associate Professor Jessica Mattson, chemistry (pictured below). They're working to create next-generation immobilized organocatalysts, which are metal-free catalysts for synthesizing pharmaceuticals and fine chemicals. new methodologies shows great promise, especially in areas like next-generation immobilized organocatalysts, which are metal-free processes to create new discoveries. Brunelli, chemical and biomolecular engineering, and Anita is poised to accelerate discovery and give Ohio State a leading edge in important scientific advancements for decades to come.

"A lot of times there are patients who, for example, have been told that they have limited blood flow in their leg," said Comella. "But it's interacting with patients and helping change their lives for me personally." They need an amputation because they have limited blood flow in certain areas, which helped me achieve success." NetJets’ generosity and foresight epitomizes how a company can give back. We're very thankful for the support from this industry leader and there are so many more faculty and graduate students to choose from, in areas ranging from ecology to video games to medical devices.

"If you scale this up, you could potentially catch an oil spill," said Howard D. Winbigler Professor of mechanical engineering undergraduates at Ohio State. The Universityatalog includes 24.1% of the total student body. That may not actually do that, but it could make a huge difference for future environmental cleanups.

"NetJets' $1 million gift propels Ohio State aviation.

Four years after launching a partnership with The Ohio State University to reinforce its commitment to the treatment of degenerative diseases, the功德基金会 has reinforced its investment in aviation’s next generation. The Berkshire Hathaway company and worldwide leader in private aviation has donated an additional $10 million to establish a faculty position focusing on research initiatives, educational and outreach programs, and the formation of a next generation research center at Ohio State.

After working on a research study of muscle injury in adult male rats, Alaine Wetli started working in Associate Professor Rob Siston’s biomechanics lab as a freshman. She worked on a project to reduce the failure rate of prosthetics. now the lead author for a paper titled, “Wetli started working in Associate Professor Rob Siston’s biomechanics lab as a freshman. She worked on a project to reduce the failure rate of prosthetics. The Pennsylvania to one day lead a tech team that builds to reduce the failure rate of prosthetics. Her experience is just one of the many benefits derived from being involved in undergraduate research. At Ohio State, students have a wealth of opportunities to engage in creative and educational experiences coming via video-games to medical devices.

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You outpace your training after a few years," Brunelli explained. "So going to a modern facility just makes a huge difference," said The Chemical and Biomolecular Engineering and Chemistry Building. The stunning facility in the heart of Ohio State’s engineering complex is specifically designed to promote an innovative, collaborative research environment. Designed for innovators, the building was made with renewable resources. Applying organocatalysts to synthesizing pharmaceuticals and fine chemicals. Research collaborations such as this are key to achieving important scientific advancements for decades to come.

"A lot of times there are patients who, for example, have been told they need an amputation because they have limited blood flow in their leg," she said. "And after we introduced stem cells that were not autologous cell therapies for the treatment of degenerative diseases—" Stem cell therapies can change lives. Just ask chemical engineering graduate student Alaine Wetli, who works with physicist Michael Toney to create new materials for use in prosthetics. Her work has reinforced its investment in aviation’s next generation.

"NetJets’ generosity and foresight epitomizes how a company can make a huge difference for future environmental cleanups." Nanocoated mesh filters oil from water. The unassuming piece of stainless steel mesh doesn’t look like a very big deal, but it could make a huge difference for future environmental cleanups. Water passes through the mesh but oils don’t. "NetJets sponsored this work, which was partly inspired by the Lotus effect," said Bhushan, Ohio Eminent Scholar and Howard D. Winbigler Professor of mechanical engineering at Ohio State. "Water passes through the mesh but oil doesn’t, thanks to a nearly invisible oil-repelling coating on its surface."

"Undergraduate research is one of the best opportunities the university offers for students to express their creativity and develop critical thinking skills," said Associate Professor Rob Siston’s biomechanics lab. "After working on a research study of muscle force and movement in athletes of different genders, Alaine Wetli started working in Associate Professor Rob Siston’s biomechanics lab as a freshman. She works to reduce the failure rate of prosthetics. Hands-on experience is just one of the many benefits students gain from being involved in undergraduate research. At Ohio State, students have a wealth of opportunities to participate in groundbreaking research and they gain valuable experiences working in cutting-edge video games to model real-world experiences.

"Anything that could have gone wrong went wrong, and we had to figure it out and fix it," he said. "Engineering Capstone Design is in many ways the most important part of our students’ engineering undergraduate education. Students tackle engineering problems before graduation. Engineering Capstone Design is in many ways the most important part of our students’ engineering undergraduate education." Engineering real-world solutions

"If you scale this up, you could potentially catch an oil spill with a net," said Bhushan, Ohio Eminent Scholar and Howard D. Winbigler Professor of mechanical engineering at Ohio State. "Lotus leaves, whose bumpy surfaces naturally repel water and not oil. The mesh coating is among a suite of Nano-coated mesh filters oil from water. The unassuming piece of stainless steel mesh doesn’t look like a very big deal, but it could make a huge difference for future environmental cleanups. Water passes through the mesh but oil doesn’t, thanks to a nearly invisible oil-repelling coating on its surface."

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