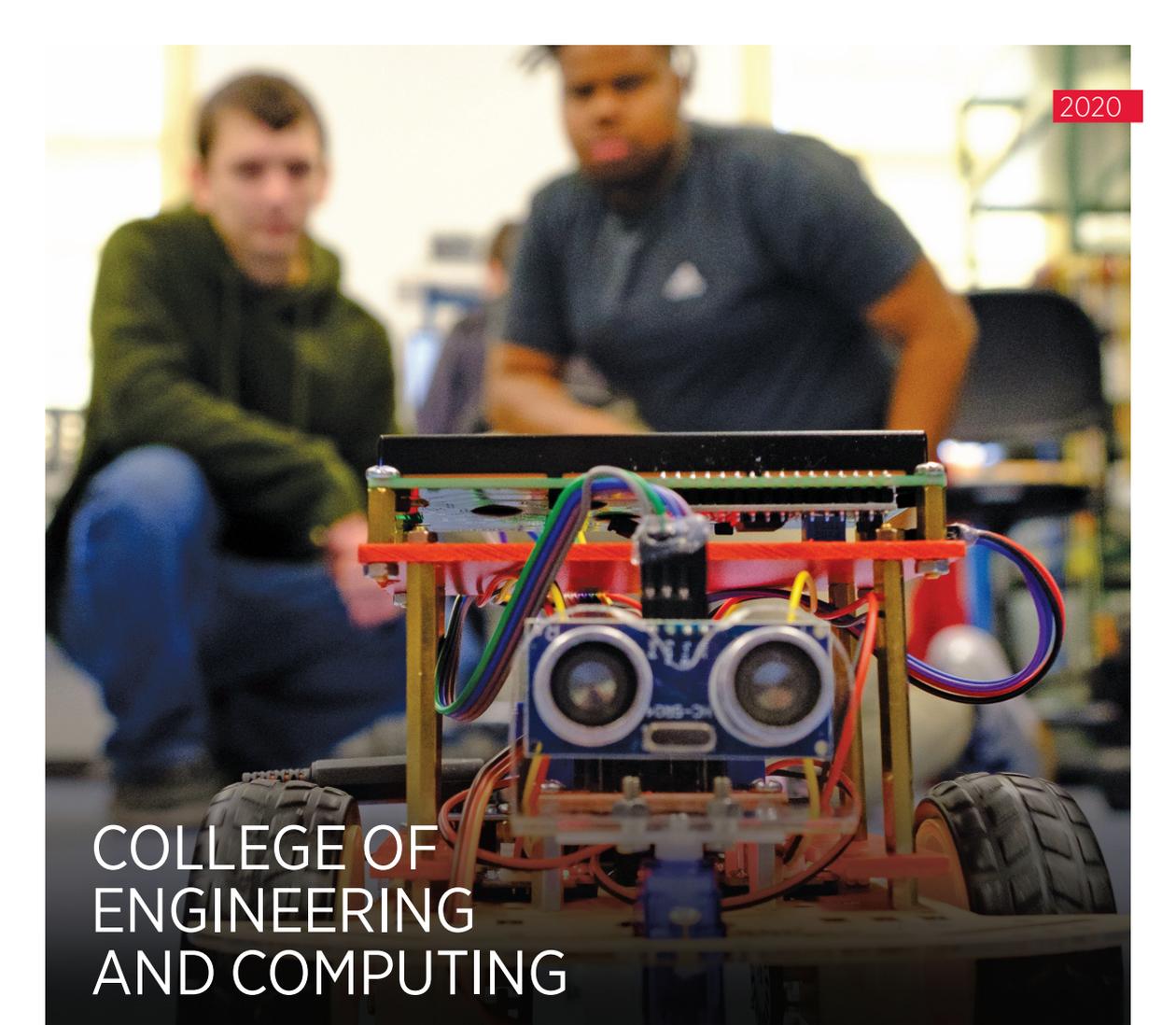


2020



COLLEGE OF  
ENGINEERING  
AND COMPUTING

Socially engaged  
industry leaders

**M** MIAMI  
UNIVERSITY



# Congratulations on your acceptance to the College of Engineering and Computing!



Here in the College of Engineering and Computing (CEC), you'll have the incredible opportunity to learn from professors in your classes and in hands-on laboratories. You'll join an extensive variety of student organizations, including Engineers without Borders, RedHawk Racing, Kode2Learn, and many of Miami's more than 600 active clubs.

You will be able to personalize your Miami experience through coursework, study abroad, research, and extracurricular activities. These opportunities will not only allow you to pursue activities that interest you, they also will help you define your career path and further develop your leadership skills.

Want to double major, add a minor or two, or participate in high-level research? This is the place to do it. I look forward to working with you as you take your first steps toward a career in engineering and computing. Maybe I'll see you in my "Engineering and Globalization in Heavy Metal Music" class in the fall.

**Brian "Dr. Kirk" Kirkmeyer**

Karen Buchwald Wright Senior Assistant Dean for Student Success  
College of Engineering and Computing



# Create solutions that change the world

**Engineers and computer scientists don't just solve problems.** They work to improve the human condition by developing the products and systems we rely on. From software and GPS to chemical processes and the power grid, our graduates understand user and community needs and incorporate them into sustainable, economical, and safe design solutions for a global society.

Combine technical tracks with a liberal core and accelerate the social benefits of technical innovation.



ENSURES STUDENTS HAVE A FOUNDATION TO LEAD IN EMERGING TECHNOLOGIES, INNOVATION, PUBLIC WELFARE, AND SAFETY NEEDS.



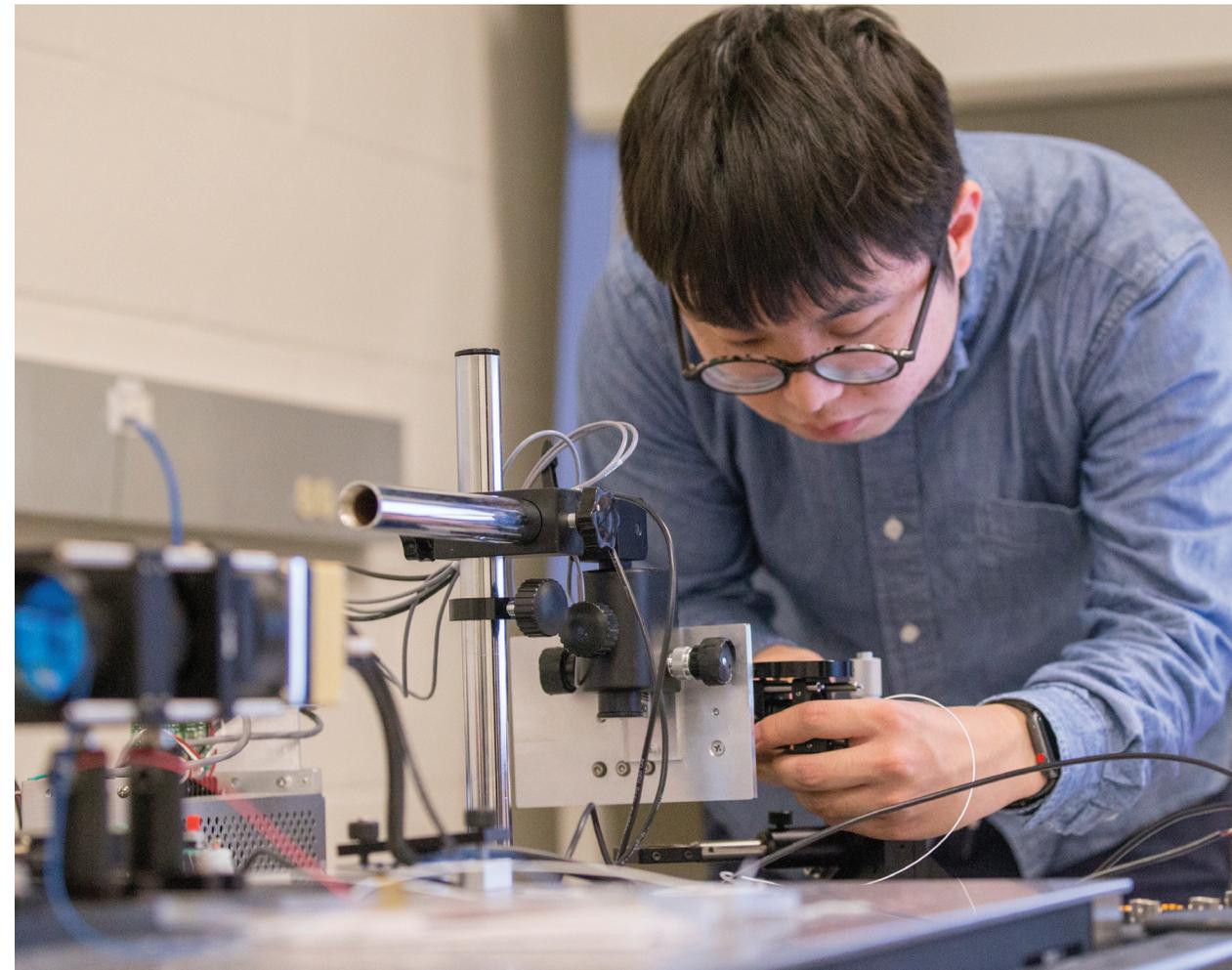
**Prasad Arora '19**  
Program Manager, Microsoft

As a high school senior 9,000 miles away, Prasad took a leap of faith coming to Miami from Mozambique. From developing water systems in Africa to earning a spot in the Lockheed Martin Leadership Institute, the versatile skill set he developed in CEC helped him land his dream job.



**Elaine Gossard '19**  
Application Coordinator, Epic

Elaine chose Miami because of its strong liberal education and carved a path that focused on humanitarian engineering. By identifying aspects of cultural service, she created ways to reach underserved communities and contributed socially engaged solutions on a global scale.

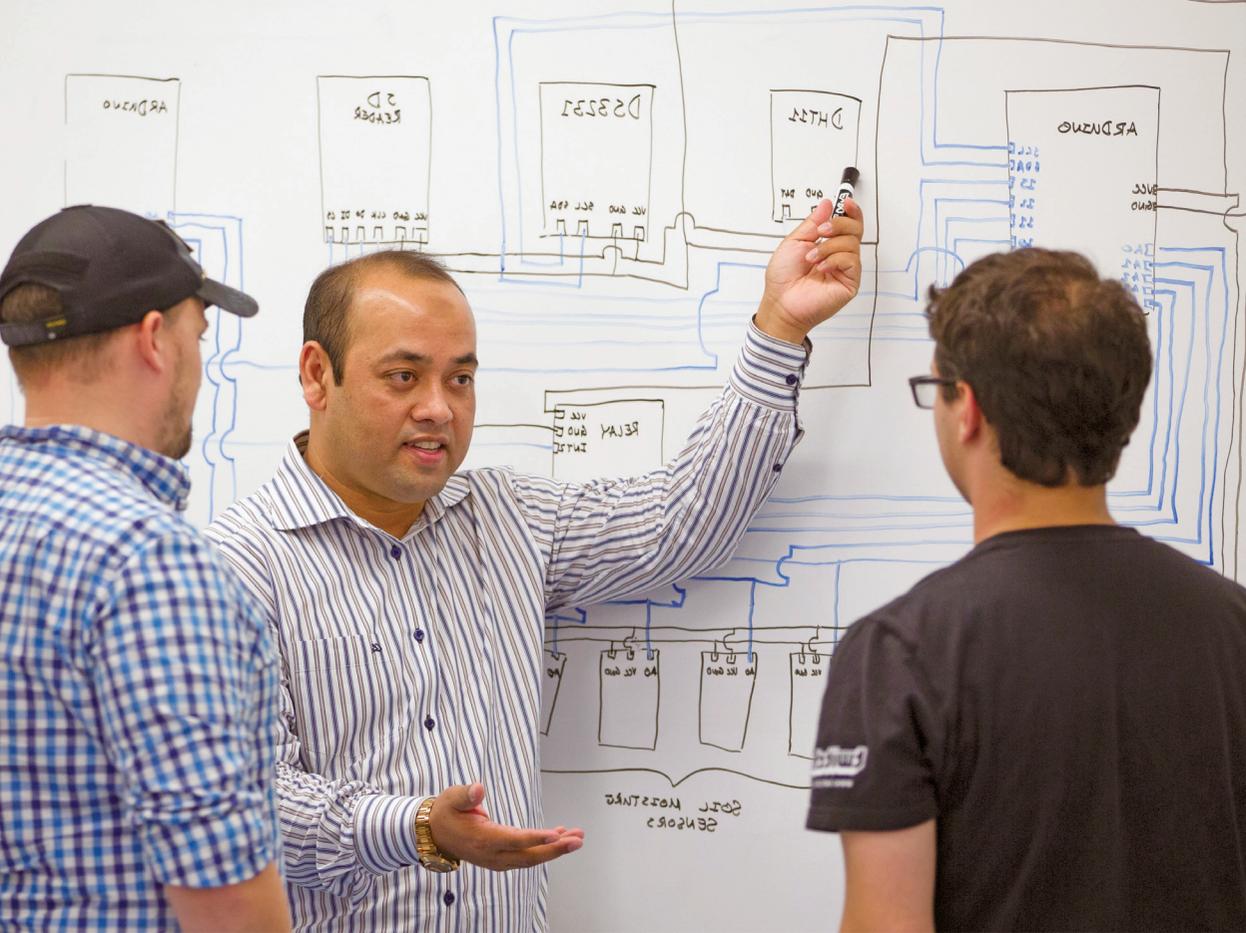


# 3D printing: a new dimension in medicine

Jessica Sparks, professor in Chemical, Paper, and Biomedical Engineering, is leading the way with 3D print technology at Miami. As a mentor to student researchers, her teams have yielded a range of innovative 3D creations: controlled drug release implants, the development of lifelike tissues for the human body, and medical simulation models.



2,000  
STUDENTS WORK  
WITH PROFESSORS  
ON FUNDED RESEARCH  
EACH YEAR



“I hire Miami graduates because they are technically prepared, job-ready, and have strong transferable skills to contribute at high levels and help Lilly accelerate life-saving medicines to patients.”

**Charlie Haddad '92**  
SR. DIRECTOR,  
ELI LILLY AND COMPANY

# This is what engaged learning looks like

**PERSONALIZED SUCCESS**  
**17:1 STUDENT-FACULTY RATIO**

That number means our dedicated faculty make you their top priority. Our commitment can be seen everywhere, from hands-on labs and project experience to research opportunities. Partner with professors who inspire, encourage, and push you to forge your own path.



of 2017-2018 graduates were  
**employed or furthering  
their education**

by Fall of 2018.

Based on First Destinations data from 79.8% of 2017-2018 graduates.



**Amy Yousefi**  
Professor of Chemical, Paper,  
and Biomedical Engineering

After more than a decade, Yousefi continues to work with students on 3D scaffold design for bone tissue engineering that could one day grow bone replacements. With grants from the National Institutes of Health, her work inspires young engineers to solve problems of the future. When she's not in the lab, Yousefi leads students across the globe through study abroad.



**Qihou Zhou**  
Professor of Electrical and  
Computer Engineering

Zhou's devotion to education is seen from his work in high school classrooms to his mentorship of undergraduates. An industry pioneer, the 2018 Miami University Distinguished Scholar explores atmospheric dynamics with his students while researching advanced techniques and improving technologies.



# Experiential learning through a global lens

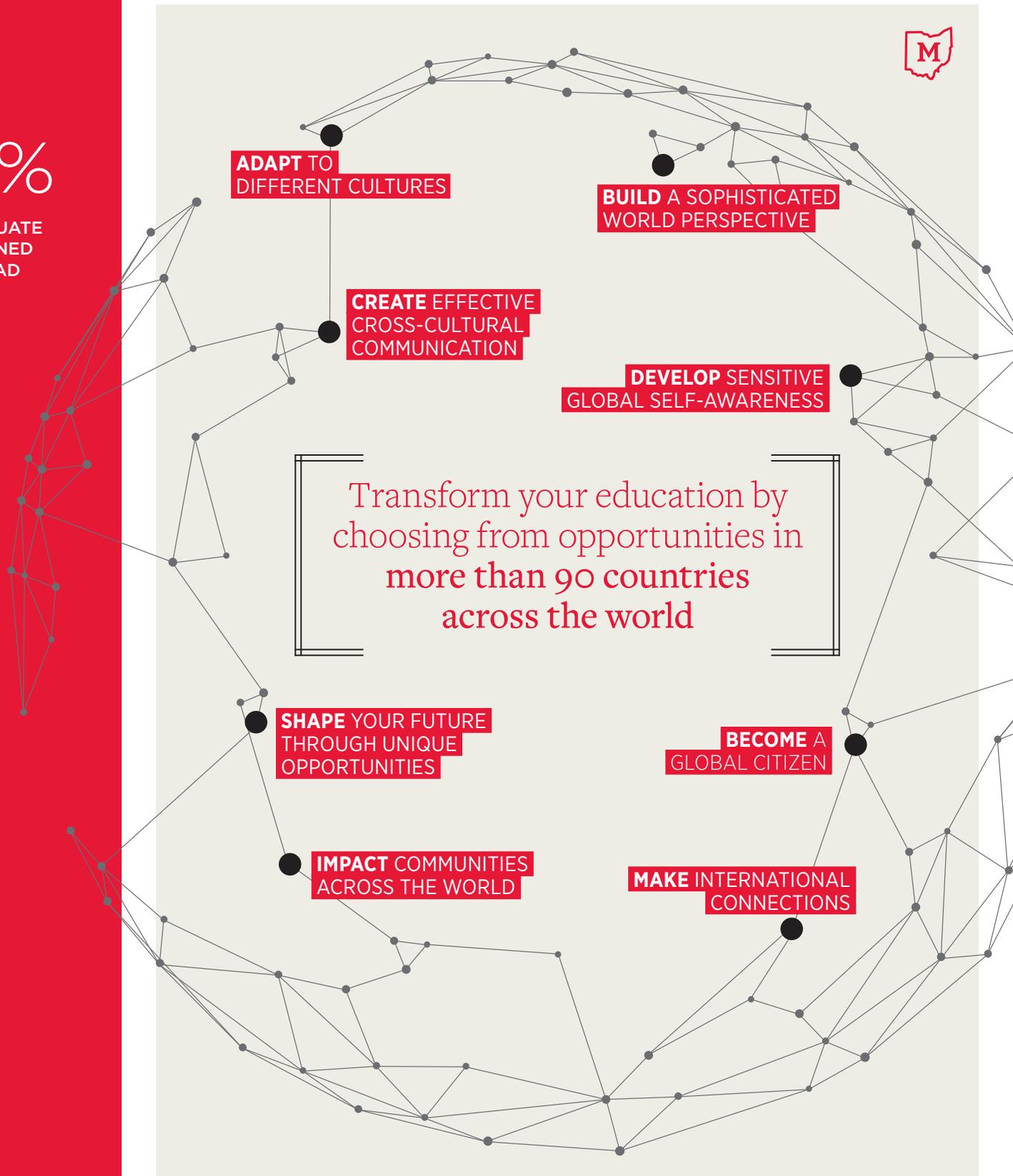


46.7%

OF UNDERGRADUATE  
STUDENTS EARNED  
CREDIT ABROAD

## Earn credits and explore cultures.

Whether it's researching thermodynamics in Austria or learning mechanics inside Italian mills and German manufacturers, our curriculum ensures you can study abroad without getting off track.





# 4+1 combined degree programs

OBTAIN BOTH A BACHELOR'S AND MASTER'S DEGREE IN FIVE YEARS

- CHEMICAL ENGINEERING
- ELECTRICAL AND COMPUTER ENGINEERING
- COMPUTER SCIENCE
- MECHANICAL ENGINEERING



Rachel Ollier '20

**Chemical Engineering**

A rugby-playing Honors student with a passion for research, Rachel was among 52 students from 40 universities to receive the prestigious Astronaut Scholarship. But she calls studying sustainability in Australia the highlight of her Miami career when she discovered global career paths for her major.



Lyndsey McMillon Brown '13

**Research Electrical Engineer, NASA**

At NASA, Lyndsey focuses on making solar cells more efficient, affordable, and durable for space. Still connected to Miami, she gives back by serving on CEC's Women's Advisory Committee where her success and experience as a minority woman in STEM shows other students a realistic path forward.

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“Why hire Miami University CEC students? I think of one word: **relevant!** Our coursework continually adapts to current business needs. Our professors are leaders in their fields. Plus, the collaborative environment simulates successful companies.”

**Bob Simpson '82**  
EXECUTIVE DIRECTOR,  
AMERICAN AXLE & MANUFACTURING

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START WHERE LEADING  
PROFESSIONALS DID AT THE

# College of Engineering and Computing

**Get a closer look** at the College of Engineering and Computing. Meet your future professors, hear from our top students, and tour our state-of-the-art facilities.



Visit virtually  
[MiamiOH.edu/visit](https://MiamiOH.edu/visit)





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Oxford, OH 45056-3434

# Join the Class of 2024!



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