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APPLY NOW

TO LEARN HOW TO APPLY TO WAYNE STATE’S COLLEGE OF ENGINEERING:

VISIT engineering.wayne.edu/admissions

CALL 313-577-3780

EMAIL engadmissions@wayne.edu

VISIT US

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Putt ing knowledge to work

Do your own thing

Whether you want to boost the marketability of your resume or stake your claim with a startup of your own, our 16-credit EDGE Engineering Entrepreneur Certificate Program can get you off and running. In a recent survey by U.S. News & World Report employers reported that they look for entrepreneurial experience in potential hires. This certificate program trains engineering students in the entrepreneurial skills required to commercialize new ideas, technologies and products. You’ll learn to solve problems and bring inventions to market through courses in entrepreneurial marketing, finance, law and management, as well as engineering, and you’ll put your new knowledge into action with a capstone project.

Engineering Wayne State’s entrepreneurship initiatives

A trio of Wayne State engineering doctoral students competed against other Michigan colleges and universities to win the top prize of $50,000 at the Michigan Clean Energy Venture Challenge. The team runs a business called PowerTech, an energy-harvesting startup that is developing a device to generate electricity from vibrations—energy that is typically wasted. The company is focused on using the technology to power tire pressure sensors.
ACADEMICS

Wayne State’s College of Engineering offers bachelor’s, master’s and doctoral degrees in each of its departments. The college also provides degree and graduate certificate program opportunities in new technologies such as alternative energy technology and electric-vehicle engineering.

Undergraduate Research

The College of Engineering is known for incubating great ideas. In 2011, it experienced a record-breaking $21.8 million in research awards from grant-funding agencies and organizations. What’s more, Wayne State holds a Carnegie Foundation classification for research activity level in high research activity, the 2.3 percent of American colleges and universities.

But research at Wayne State isn’t reserved for the experts. You’ll have the opportunity to work with engineering professors and to present your findings in national publication or conference presentations, as early as your freshman year. Our hands-on learning environment means you’ll spend time in the classroom and in the lab with some of the region’s top engineering minds. Wayne State is one of the nation’s top 10 engineering programs for the number of students who want to discuss your ideas one-on-one, in fact. The American Society for Engineering Education recently ranked Wayne State amid the nation’s top 10 engineering programs for the number of students who want to discuss your ideas one-on-one. Here, you’ll get personal attention to help you make the most of your education, with all the resources of a major university.

International Recognition

A team of Wayne State University biomedical engineering undergraduate students recently returned to the 2012 Design, Analysis, and Optimization of Engineered Systems (DEOS) competition at the NASA Glenn Research Center. The students submitted a design for a 3-D printed artificial eye prosthesis that would work with the use of only one arm to independently look up, down and to the sides. This project was developed in collaboration with researchers from the Department of Ophthalmology at the Detroit Medical Center and the Department of Biomedical Engineering at Wayne State University. This is a one-of-a-kind initiative established by the U.S. Department of Energy and General Motors. And civil engineering students were recognized for their efforts in a one-of-a-kind initiative established by the U.S. Department of Energy and General Motors. And civil engineering students were recognized for their efforts in a one-of-a-kind initiative established by the U.S. Department of Energy and General Motors.

RECENT UNDERGRADUATE PROJECTS

- Phase transition: Micromechanical applications
- Droplet formation and breakup in rotating Taylor-Couette flow
- Finite element modeling for automotive crash testing
- Developing a hyperspectral automatic camera movement robot
- Preparing the locations of hypertensive arteries connected to the brain pathology
- Design and fabrication of a constant-volume reactor
- Shale gas recovery: Geomechanical applications
- Design and fabrication of a constant-volume reactor
- Residual in-cylinder hydrocarbon concentration
- Two-color ratio thermometry
- Dimension 3D Printing, encourages students to submit their 3-D printed project designs
- Two-color ratio thermometry
- Design and fabrication of an engine intake air temperature and pressure control systems
- Study of ejector permeability membrane materials
- Design and fabrication of a constant-volume reactor
- Storage
- Developing a software system to automate scheduling processes in healthcare setting

THE WORLD IS IN YOUR HANDS

Engineers and computer scientists are inventors, designers and producers. If you can imagine a greater use, a smarter rooftop garden, even a memorial implant to restore eyesight, an engineering degree program can give you the tools you need to build it.

Wayne State University is the nation’s largest public research university in the state of Michigan. Located in the heart of the Motor City, our engineering curriculum builds the rational in games-changing ideas that require the use of only one arm to independently look up, down and to the sides. This project was developed in collaboration with researchers from the Department of Ophthalmology at the Detroit Medical Center and the Department of Biomedical Engineering at Wayne State University. This is a one-of-a-kind initiative established by the U.S. Department of Energy and General Motors. And civil engineering students were recognized for their efforts in a one-of-a-kind initiative established by the U.S. Department of Energy and General Motors. And civil engineering students were recognized for their efforts in a one-of-a-kind initiative established by the U.S. Department of Energy and General Motors.

PRACTICAL EXPERIENCES

A Wayne State education breaks the boundaries of the classroom. Get the global perspective employers love through study abroad, or take advantage of the high concentration of internship and co-op opportunities at locally headquartered companies and organizations.

You can participate in the College of Engineering’s EDGE Engineering Entrepreneurship Certificate Program, an innovative program that gives you the opportunity to learn about entrepreneurialism, hands-on fabrication, and the desirability of initiative established by the U.S. Department of Energy and General Motors. And civil engineering students were recognized for their efforts in a one-of-a-kind initiative established by the U.S. Department of Energy and General Motors. And civil engineering students were recognized for their efforts in a one-of-a-kind initiative established by the U.S. Department of Energy and General Motors.

Practical Experiences

- Study of ejector permeability membrane materials
- Design and fabrication of a constant-volume reactor
- Storage
- Developing a software system to automate scheduling processes in healthcare setting

FUNDING YOUR FUTURE

In 2011, the College of Engineering awarded about $200,000 through nearly 100 scholarships specifically for WSU engineering students. These awards, typically offered to current WSU students may be based on both excellent academic achievement and exemplary leadership in student activities and community service. Additionally, more than 600 general scholarship programs are available to Wayne State University students across all programs of study.

- engineering.wayne.edu/financialaid
- scholarships.wayne.edu