WHO WILL ENGINEER THE FUTURE? SPARTANS WILL.
MSU Engineering research in autonomous and connected vehicles is contributing to safer, more efficient, and less polluting transportation systems.
Who will take on the challenges of the future?

Who will protect the environment, make bridges and roads safer, develop new ways to harvest renewable energy, create medical devices for a healthier life?

Who will improve public safety and online security?

Who will design stronger, lighter materials that improve the safety and efficiency of our cars?

Who will invent new products that help us lead better lives?

Spartans Will.
Professional grade 3-D printers that can simulate diverse mechanical and physical properties make prototypes such as this robotic fish possible.
Learn from experts at the leading edge of discovery.

Picture yourself learning cutting-edge technology from the very people who are creating it.

Spartan Engineering includes some of the world’s foremost researchers in areas as diverse as renewable energy, lightweight composite materials, and biometric recognition.

More than 96% of Spartan Engineering faculty members are actively connected with undergraduate students — teaching, advising student organizations, leading Study Abroad programs, and mentoring undergraduate research.

The same faculty members who conduct innovative research in our labs also teach most MSU engineering courses.
Immerse yourself in hands-on, team-based learning.
Get your hands dirty and your mind engaged from Day 1.

First-year Spartan Engineering students live and take engineering classes together in South Neighborhood in our Engineering CoRe Experience.

CoRe immerses you in a living-learning environment where you’ll work in teams with other engineering students, get exposed to engineering careers, and network with professional engineers and employers.

CoRe classes let you dive into engineering design through hands-on projects solving real-world problems. And you have access to engineering-dedicated computer and design labs conveniently located in South Neighborhood.

CoRe brings a whole network of people — tutors, advisors, peer mentors, and other faculty and staff members dedicated to your success — right to your door.

CoRe helps you build life-enriching connections with fellow students, faculty members, advisors, and industry representatives through social programs and activities that help build the whole engineer.
We'll help you find your fit.
We’ve got your back.

From your first day on campus to graduation and beyond, the Spartan Engineering team is here to help you succeed.

Diversity Programs Office (DPO) supports the recruitment and retention of a diverse student body, with programs that support students from pre-college through grad school. The DPO also offers tutoring support to all students in the College of Engineering through the Guided Learning Center.

Women in Engineering (WIE) recruits female engineering students and cultivates an environment conducive to success. WIE Connect matches new students with current female engineering students for support and networking help. You can also connect with other Spartan Women in Engineering in the MSU Society of Women Engineers, MSU Women in Computing, and Phi Sigma Rho sorority.

Resource Center for Persons with Disabilities (RCPD) helps persons with disabilities to access resources that create an environment of opportunity and full participation.
Academic support is widely available wherever and however you need it.
We’ll help you make the grade.

In addition to faculty office hours and course-specific study sessions, there are numerous resources for help — as part of a group or individualized to your needs.

**CoRe Tutoring** provides free help for math and science courses most evenings — right in South Neighborhood.

**DPO Guided Learning Center** offers free, one-on-one, small group, and nightly drop-in help in the Engineering Building.

**Neighborhood Student Success Collaborative (NSSC)** provides academic, wellness, and social resources — right where students live.

**The Writing Center** offers free help online, in writing groups, and one-on-one in residence hall satellite locations, including South Neighborhood.

**Math Learning Centers** offer free tutoring for every 100- and 200-level math class — in Wells Hall and in residence hall satellite locations, including South Neighborhood.

**Department of Chemistry Help Room** provides free tutoring in the Chemistry Building. The department also maintains a list of personal tutors available for hire.
Advisors help you steer a successful course from academic orientation right through to graduation.
We’ll help you stay on track.

Advisors help you steer a successful course from academic orientation right through to graduation.

Your advisor will not only help you pick the right classes at the right time, but can help you explore majors and career options, direct you to campus resources, and introduce you to peer mentors who will help you learn the ropes, meet other engineering students, and adjust to campus life.

get the 411 on staying on track

ENGINEERING ADVISING
egr.msu.edu/undergraduate/academic/advisors
A New York Times survey of business leaders ranks MSU in the top 20 for recruiting.
We’ll help you realize your dreams.

Make the most of your investment.

- **96% of graduating Spartan Engineers** find employment in their field or enter grad school within six months of graduation, with an average starting salary of nearly $66,000.*

- **The Center for Spartan Engineering** can help you gain paid, professional engineering work experience — beginning your freshman year! The Center can help you find internships, co-ops, research experiences, and full-time employment. They’ll prepare you for success with résumé reviews and workshops, mock interviews, and one-on-one meetings with employers and alumni.

We bring employers to you.

- **The MSU Career Services Network** hosts more than 300 firms at employment events throughout the year, including Career Galleries focused on engineering, business, and diversity.

  - **Engineering Expo** brings 200+ employers to the Breslin Center, and a pre-gallery co-op/intern exchange hosts 80 employers in the Engineering Building each fall.

- **The Center** also hosts employers throughout the year to meet, interview, and provide career information and opportunities to engineering students.

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* Individual salaries can be higher or lower, of course, depending upon factors such as location, type and size of the business, and your specific major and skillset.
Entrepreneur Magazine named East Lansing one of the 10 “Best College Towns to Start a Business.”
It’s not a one-size-fits-all world.

Even if your future plans include working for yourself, it doesn’t mean you have to go it alone. MSU offers students and faculty an array of entrepreneurial resources and academic opportunities.

A **minor in entrepreneurship** in the Eli Broad College of Business is open to all majors.

**The Hatch**, a student-run incubator, hosts and cultivates student start-up businesses in a collaborative environment.

**The Entrepreneurship Association** is an MSU student organization for those who are passionate about entrepreneurship and innovation.

**Spartan Innovations** offers faculty and students access to experienced business leaders and start-up funding opportunities.

An **entrepreneurship network** connects venture and social entrepreneurs with education, know-how, resources, mentors, advocates, and funding.

**Women in Entrepreneurship** offers a network created to inspire and empower women interested in entrepreneurship.
Get a move on! MSU Engineering researchers have created a new way to harvest energy from human motion soon you'll be charging your cellphone simply by walking.
Design and build your personalized education.

10 undergraduate majors
+ dozens of concentrations and specializations
= a program custom fit for honing the skills to launch your career.

Majors include programs in:

- Applied Engineering Sciences (AES)
- Biosystems Engineering (BAE) ¹
- Chemical Engineering (ChE) ¹
- Civil Engineering (CE) ¹
- Computer Engineering (CpE) ¹
- Computer Science (CSE) ²
- Data Science (DSE) ³
- Electrical Engineering (EE) ¹
- Environmental Engineering (ENE) ¹
- Materials Science and Engineering (MSE) ¹
- Mechanical Engineering (ME) ¹

Not yet sure where you want to focus? You can start your Spartan Engineering experience as an Engineering Exploratory student and take up to 56 credits before deciding on a specific engineering discipline.

³ A new major and minor in Data Science will be offered jointly by the departments of Computational Mathematics, Science & Engineering; Computer Science & Engineering; and Statistics & Probability beginning Fall 2019.
MSU Engineering researchers rise to the challenge helping communities like Flint ensure the safety of their drinking water.
Personalize your program.

Customize your MSU experience to meet your unique interests and career goals. Choose from a broad range of concentrations, specializations, and minors that add knowledge to your areas of interest.

Concentrations (also known as “focus tracks,” “tracks,” or “cognates”) let you apply the concepts of your discipline to a focused area of study such as biomedical engineering or environmental engineering.

Minors and Specializations allow you to explore subjects outside of your major. More than 150 minors, concentrations, and specializations are available in disciplines throughout MSU. Some minors and specializations (such as Environmental Studies, Game Design and Development) are available only to students within specific majors or colleges. Most, however, are open to all interested students. Your academic advisor can help you match your interests to your degree program.

get the 411
ON ENGINEERING OPTIONS

APPLIED ENGINEERING SCIENCES
egr.msu.edu/aes/academics

BIOSYSTEMS ENGINEERING
egr.msu.edu/bae/undergraduate

CHEMICAL ENGINEERING
chems.msu.edu/academics/
dergraduate/che

CIVIL ENGINEERING
egr.msu.edu/cee/undergraduate-
programs/civil-engineering

COMPUTATIONAL MATHEMATICS,
SCIENCE & ENGINEERING
cmse.msu.edu/academics/
dergraduate-program

COMPUTER SCIENCE & ENGINEERING
cse.msu.edu/Students/Future_
Undergrad

ELECTRICAL & COMPUTER ENGINEERING
ece.msu.edu/academics/
dergraduate-programs

ENVIRONMENTAL ENGINEERING
egr.msu.edu/cee/undergraduate-
programs/environmental

MATERIALS SCIENCE & ENGINEERING
chems.msu.edu/academics/
dergraduate/mse

MECHANICAL ENGINEERING
egr.msu.edu/me/me-
dergraduate-program
Put yourself in the driver's seat! Student groups bring together people with common interests and move you toward career goals.
Engineering is a team sport!

Student organizations are an important part of your college experience. They offer insight into career fields, bring theory into application, offer opportunities for leadership, encourage teamwork, look great on your résumé — and they’re fun!

MSU has 900+ student organizations geared toward every possible interest. Four dozen are focused on engineering, including active student chapters of professional and honors societies in every discipline.

Competition isn’t just for football and basketball players — demonstrate your engineering skills in head-to-head contests with universities from across the country.

Spartan Engineering competition teams include:

- Baja Racing Team
- Chem-E-Car Team
- Concrete Canoe Team
- Formula Racing Team
- SOAR Autodrive Challenge Team
- Solar Car Racing Team
- “Spartan Spanners” Steel Bridge Team
- Strength Augmenting Robotic eXoskeleton (STARX) Team
- Unmanned Systems Team
- VEX Robotics

get the 411 on life outside of class

STUDENT ORGANIZATIONS
egr.msu.edu/student-groups

BAJA RACING TEAM
msubaja.com

CHEM-E-CAR TEAM
aiche.org/community/students/chem-e-car

CONCRETE CANOE TEAM
facebook.com/msuconcretecanoe

FORMULA RACING TEAM
egr.msu.edu/fsae

SOAR AUTODRIVE CHALLENGE TEAM
canvas.msu.edu/soar

SOLAR CAR TEAM
facebook.com/MSUSolar

“SPARTAN SPANNERS” STEEL BRIDGE TEAM
ascemsu.wixsite.com/ascemsu

STARX TEAM
egr.msu.edu/starx/

UNMANNED SYSTEMS TEAM
facebook.com/MSUUnmannedSystems

VEX ROBOTICS
egr.msu.edu/studentgroups/vex-robotics
Engineering problem-solvers: MSU Engineering students developed bicycle-powered threshing machines then fabricated and delivered them to a rural Guatemalan community.
Engineering is hands-on.

Spartan Engineering students tackle real-world issues with industry partners in research and design projects throughout their MSU careers. In capstone classes, seniors work in teams to develop solutions to issues, then design and build projects for sponsoring companies, present their work, and compete for awards at Design Day each fall and spring semester.

Design Day brings together engineering students at all levels to engage in competitions, make presentations, and demonstrate projects for faculty and industry sponsors.

Engineering is life-changing.

A special relationship with the MSU Resource Center for Persons with Disabilities offers students opportunities to develop projects that positively affect the lives of fellow students and others with disabilities. Groups such as Engineers Without Borders, and programs such as International Humanitarian Engineering and the minor in Information and Communication Technology challenge students to engineer solutions that enhance the lives of the poor, while respecting their social, cultural, and ethical identities.

get the 411 on making a difference

design day
designday.msu.edu

MSU ENGINEERS WITHOUT BORDERS
ewb.egr.msu.edu

INTERNATIONAL HUMANITARIAN PROJECTS
egr.msu.edu/global/international-humanitarian-projects

INFORMATION & COMMUNICATION TECHNOLOGY FOR DEVELOPMENT
egr.msu.edu/academics/undergraduate/multi-disciplinary/ict

GLOBAL ENGINEERING CONCENTRATION (MECHANICAL ENGINEERING)
egr.msu.edu/global/global-engineering-minors-specializations
Spend some time this summer test-driving MSU Engineering in one of our pre-college engineering programs.
Explore engineering before you even enter college!

**Summer Engineering Camps.**
We’ll show you how to bring your intellect and creativity together to have fun, solve problems, and discover your career interests.

**Making a Game of It (programming and creating video games).** Residential program for students in grade 11 through recent graduates.

**Spartaneering Robotics.** Commuter programs for students entering grades 3-6 (Robotics 1) or grades 7-9 (Robotics 2).

**High School Engineering Institute.** Residential programs for students in grade 10 through recent graduates.

**Women in Engineering.** Residential programs for young women and girls. *Spartan Girls* for students entering grades 7-8, or *Lady Spartans* for students entering grades 9-12.

Use your smart phone to check out our summer engineering camps – or go to the websites on the right to learn more.
The future is clear! MSU Engineering researchers have developed technology to turn transparent surfaces, from building windows to cell phones, into solar collectors without obstructing the view.
Apply yourself!

Your future as an engineer starts with MSU’s easy online application.

Your Spartan Engineering career starts when you enter MSU as a pre-engineering student. Once you’ve successfully completed a series of core courses with the needed GPA for your program (typically 2.9 or higher, weighted for technical courses), you’ll be admitted to the College of Engineering.

Transfer students.

Transfer students can apply a variety of courses that are equivalent to College of Engineering and MSU general education requirements. Learn more about course requirements, transfer credits, and the application process for transfer students on our MSU Future Engineer website.

The MSU Honors College offers additional challenges and opportunities for high-achieving students. Your MSU admissions application also serves as the application for Honors College. Honors College engineering students may also be eligible to engage in exciting research through a professorial assistantship — working alongside engineering faculty in your first year.
Let’s meet up!

Choosing the university and major that is right for you is one of the most important decisions you’ll ever make — and we want to make sure that you have all of the information you need to make educated decisions about your future. Get to know us in a face-to-face visit and set an appointment to meet with a member of our recruiting team:

- **Drew Kim**, Assistant to the Dean for Recruitment, Scholarships, and K-12 Outreach
  
  EMAIL: future-engineer@egr.msu.edu  
  PHONE: (517) 353-7282  
  WEB: egr.msu.edu/future-engineer

- **Luis Donado**, College of Engineering Assistant Director for Recruitment and K-12 Outreach
  
  EMAIL: future-engineer@egr.msu.edu  
  PHONE: (517) 353-7282  
  WEB: egr.msu.edu/future-engineer

- **Teresa VanderSloot**, Director, Women In Engineering Recruitment and K-12 Outreach

- **Geralynn Phelps**, Assistant Director, Women In Engineering Recruitment and K-12 Outreach
  
  EMAIL: wie@egr.msu.edu  
  PHONE: (517) 432-1273  
  WEB: egr.msu.edu/wie/contact-wie

428 S. Shaw Lane, Room 1410  
Michigan State University  
East Lansing, MI 48824
Take the next step!

Discover your future as a Spartan Engineer!

Come visit us.
egr.msu.edu/future-engineer/engineering-presentation-and-tour

Try one of our summer engineering programs.
egr.msu.edu/future-engineer/programs

Contact us with any questions.
EMAIL: future-engineer@egr.msu.edu
PHONE: (517) 353-7282

Complete the Free Application for Federal Student Aid (FAFSA) by the required deadlines to be considered for financial aid.
studentaid.ed.gov/sa/fafsa

Apply to MSU!
admissions.msu.edu

get the 411 on visiting MSU
STUDENT TOURS & ACADEMIC DEPARTMENT VISITS
admissions.msu.edu/visit

GROUP TOURS
tour.msu.edu/visits

MSU IN YOUR AREA
admissions.msu.edu/visit/msu-in-your-area.aspx

ENGINEERING PREVIEW DAY
egr.msu.edu/future-engineer/programs/future-spartan-engineers-preview-day

COLLEGE OF ENGINEERING TOURS
egr.msu.edu/future-engineer/engineering-presentation-and-tour
"Engineering the Future" decals can be placed on almost any smooth surface. Stick and re-stick to cell phones, laptops, doors, windows, lockers — just about anything that doesn’t move.