

CHANGE LIVES

MILLIGAN ENGINEERING

Whether designing modern technological devices and systems or meeting the basic needs of the underserved and developing world, Milligan engineering grads will **change people's lives.**



ELECTRICAL ENGINEERING

Focuses on all things electrical/electronic, including electronic devices, systems, and energy. This includes digital-based communication and control systems; electric power; devices and electrical circuits; and robotics and control systems.



MECHANICAL ENGINEERING

Focuses on machines, structures, devices, mechanical systems, and energy conversion systems. This encompasses areas such as energy, fluid mechanics, thermodynamics, mechanical design, manufacturing processes, robotics, and systems modeling.



LEARN FROM THE BEST

Dr. Greg Harrell, program director, has conducted energy assessments and training for industry clients on six continents, 30 countries, and 42 U.S. states. He's the lead technical advisor for the United Nations and U.S. Department of Energy Industrial Programs. He has engineering degrees from the University of Tennessee and Virginia Tech and has taught in both programs.

Dr. David Hampton has taught 10 years at the U.S. Military Academy at West Point. He was an officer in the U.S. Navy and has completed summer research fellowships with NASA, the Army Research Lab, and Cambridge University. He holds engineering degrees from the U.S. Naval Academy and U.Va., and a theology degree from Dallas Theological Seminary.

Dr. Jeffrey Giesey has been associate dean at the Russ College of Engineering and Technology at Ohio University. He holds engineering degrees from Michigan State University and University of Michigan. He has received numerous awards and prestigious grants, including a Fulbright Fellowship in 2001.

CURRICULUM

Milligan engineering students receive rigorous preparation in science and mathematics in the context of the Milligan liberal arts curriculum. This foundation enriches engineering and technology components with an understanding of culture, arts, and the humanities, and encourages students to see how all subjects—and technological solutions—are interconnected. Small classes provide closer attention to student learning, progress, and success. Engineering at Milligan is a four-year program, but students may opt for a fifth-year in order to complete a co-op program.

- **IN-DEPTH CLASSICAL ENGINEERING CURRICULUM** combining theory and practice
- **LIBERAL ARTS FOUNDATION** helps you understand and communicate with those you'll serve
- **CHRISTIAN WORLDVIEW** encourages you to serve others and impact the world
- **FACULTY MENTORING** goes beyond the classroom
- **APPLIED SPECIALIZATION LAB EXPERIENCE** where you'll apply knowledge and theory to real-world equipment and be skill-ready for the workforce
- **INDUSTRY LEADERS READY TO HIRE** Milligan engineering grads



ENGINEERING BUFFS

FACILITIES

Located in the Phillips Building at Milligan, the engineering labs include Applied-Specialization Labs for hands-on experimentation and class discussion, the Multi-Disciplinary Design Labs for student capstone projects, and the Maker-Space Lab. At Milligan, engineering education provides multiple opportunities for students to practice hands-on design in a multi-disciplinary environment.

ACCREDITATION

The Milligan engineering majors have been reviewed and approved by the Southern Association of Colleges and Schools Commission on Colleges (SACSCOC). Milligan also will be seeking accreditation from the Accreditation Board for Engineering and Technology (ABET). Accordingly, our program has been designed to meet their accreditation standards. Our engineering faculty are experienced and seasoned academicians who have been core faculty members in ABET-accredited programs. More information on ABET accreditation can be found at www.abet.org.

ADMISSION

Apply to Milligan College and declare an electrical or mechanical engineering major. Engineering coursework involves a demanding undergraduate curriculum, so students should exemplify exceptional study habits, mental preparedness, and dedication to purpose. Below are recommendations for entering engineering students:

- 3.5 high school GPA (3.0 cumulative for transfers)
- Composite ACT score of at least a 25 with at least a 25 in the math category (1130 SAT)
- Minimum 4 credits of high school mathematics: Algebra 1, Algebra 2, Geometry, Pre-Calculus or Trigonometry
- Minimum 3 credits of high school physical science: Chemistry 1, Chemistry 2, Physics 1, Physics 2

(Transfer students need to have their transcripts evaluated and a plan sheet developed to determine if any additional coursework or time is necessary to complete the program and degree.)

SCHOLARSHIP

An engineering scholarship is available for eligible students declaring an engineering major at the point of application. This can be combined with other Milligan institutional merit scholarships for up to \$17,000 in academic scholarships. Students also may be eligible for need-based, state, and federal aid. Scholarships are limited, so apply early.

APPLY NOW: MILLIGAN.EDU/ENGINEERING

OFFICE OF ADMISSIONS
PO Box 210
Milligan College, TN, 37682

www.milligan.edu/engineering
admissions@milligan.edu
800.262.8337 | 423.461.8730

WHAT INDUSTRY LEADERS ARE SAYING

EASTMAN CHEMICAL COMPANY

“We need problem solvers, particularly with the education of engineers to solve the world’s problems. Thank you, Milligan, for what you’re doing for the future.”

TPI CORPORATION *(major U.S. heat and electrical equipment manufacturer)*

“The markets that we sell—electrical and mechanical—mesh with the type of students that Milligan’s going to train in this program.”

NN Inc. *(leading diversified industrial manufacturer)*

“We have a need for more engineers. We are looking for a place to create a technical incubator, a place to expand our R&D resources, and we’re going to a place like Milligan that has engineering talent that we can take advantage of.”

NUCLEAR FUEL SERVICES *(fuel supplier for U.S. Navy’s nuclear-powered fleet)*

“Milligan provides well-rounded graduates with strong Christian values that are a good fit for our organization. To have a feed of students who are ready to work, well-trained, and want to be in this area is a positive for us.”



**TOP 10
REGIONAL
BEST COLLEGE
IN THE SOUTH**
-U.S. NEWS & WORLD REPORT

**A TOP 20
COLLEGE**
-WASHINGTON MONTHLY
**A BEST BUY
IN THE SOUTH**
-U.S. NEWS & WORLD REPORT

**#2 BEST
COLLEGE
FOR VETERANS**
**MILITARY
FRIENDLY SCHOOL**
-MILITARYFRIENDLYSCHOOLS.COM

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