DEPARTMENT FACULTY

Blair T. Allison, Ph.D., P.E.
Professor of Mechanical Engineering

Erik J. Anderson, Ph.D.
Professor of Mechanical Engineering

Mark Archibald, Ph.D.
Professor of Mechanical Engineering

Erik R. Bardy, Ph.D.
Professor of Mechanical Engineering

Stacy G. Birmingham, Ph.D.
Dean and Professor of Mechanical Engineering

Michelle A. Clauss ’83, Ph.D.
Professor of Mechanical Engineering

Mark C. Fair, Ph.D.
Professor of Mechanical Engineering and Physics

Mark Reuber, Ph.D., P.E.
Field Director for the Office of International Education and Professor of Mechanical Engineering

Vern W. Ulrich, Ph.D., P.E.
Professor of Mechanical Engineering

DEPARTMENT DESCRIPTION

Mechanical Engineering is a broad discipline that develops technological solutions to societal problems in order to benefit mankind. Graduates apply their skills to a vast array of areas including but not limited to renewable energy systems, medical devices, fuel efficient automobiles and building climate control systems.

MAJOR

Mechanical Engineering

The Bachelor of Science degree in mechanical engineering prepares students for graduate work and employment in engineering research, design, manufacturing, production, sales and management. A core of 99 hours in mechanical engineering and related topics, four general elective hours and 25 hours in general education courses are required.

ACCREDITATION

The mechanical engineering program at Grove City College is accredited by the Engineering Accreditation Commission of ABET, http://www.abet.org.

SPECIAL DEPARTMENTAL AREAS OF INTEREST

TECHNICAL SOCIETIES

The American Society of Mechanical Engineers, American Society of Heating, Refrigerating and Air Conditioning Engineers, Society of Automotive Engineers and the Society of Women Engineers are active groups on campus.

SPECIAL COURSE OFFERINGS

Design for Manufacturing (including site visits), Human-Powered Vehicle Design, Biomechanics (biomaterials, biomimetic robotics, etc.), Survey of Alternative Energy Systems, Principles of Heating, Ventilating and Air Conditioning, and Finite Element Analysis are all special courses offered within the department.

STUDY ABROAD OPPORTUNITIES

• Junior fall semester in Nantes, France for mechanical engineers (limited enrollment)
• Short-term international study during January/May intersessions
• Approximately 1/3 of all mechanical engineering students study overseas

UNDERGRADUATE RESEARCH OPPORTUNITIES

Several opportunities exist for students to become involved in research during the school year and summer. Current research areas include alternative energies, biomimetic propulsion, experimental fluid dynamics, light alternative vehicles, biomedical instrumentation, control systems and more.

INTERNSHIPS

Students are encouraged to participate in industry and/or research internships during summers and breaks. Faculty and the Grove City College Career Services Department can assist students in the process of applying for these experiences.

CAREER AND GRADUATION OPPORTUNITIES

Graduating mechanical engineers enjoy a wide variety of employment opportunities. A few of the companies that hired our graduates include Bechtel Plant Machinery, Boeing Company, General Electric, Honda R&D Americas, Northrop Grumman, Rolls Royce Nuclear Services, Toyota Motor Engineering & Manufacturing and Westinghouse Electric Company. Many of our students have also gone on to graduate schools such as MIT, Princeton, Notre Dame and Penn State.

CONTACT

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Chair and Professor of Mechanical Engineering
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The rigors of the mechanical engineering program at Grove City College have given me the tools to expand and utilize my engineering skill set. As a result, I know that I am prepared to enter my upcoming vocation with excellence for the glory of God.

– Jake Wassenar ’13

Grove City College (www.gcc.edu) is a highly rated, private liberal arts school that offers a high-quality education in a thoroughly Christian environment for about half the cost of other schools. Founded in 1876, the College is committed to the principles of faith and freedom, a pioneer in independent private education and accepts no federal funds. It offers its 2,500 students degrees in more than 50 majors in the liberal arts, sciences, engineering and music on a picturesque 188-acre campus north of Pittsburgh. It is accredited by the Middle States Commission on Higher Education and routinely ranked among the best colleges and universities by Princeton Review, U.S. News & World Report and others. Consumers Digest calls Grove City College a Top Value and Money magazine lists it among the Best Schools for Your Money. It is one of the Top Conservative Schools in the country, according to The Young America’s Foundation and a Christian College of Distinction.