Vision

Short-term
Position the College of Engineering to move into the arena of America's top 20 engineering programs by 2008

Long-term
Position the college to move into the top 10 by 2014, competing decisively for our nation’s brightest students and most outstanding faculty

College at a Glance

Students
Enrollment
Undergraduate: 2,996
Graduate: 656
Total: 3,652

Faculty
Tenure-track teaching faculty: 157

Above figures represent the 2003-04 academic year
Facts

Our College...

• Comprises the largest engineering program in Alabama
• Produces about half of the state of Alabama’s engineering graduates
• Graduated three members of the prestigious National Academy of Engineering—John Junkins, Oliver Kingsley and Philip Lett
• Awards more than $1 million in scholarships annually
• Has a rich heritage of solid engineering disciplines that combine concept and real-world experience
• Conducts approximately half of the university’s $62 million in annual research
• Is represented by more than 30,000 Auburn Engineering alumni around the globe
• Maintains an aggressive campaign to update and expand classroom and laboratory facilities

Our Rankings...

• U.S. News & World Report America’s Best Colleges 2003 ranking for undergraduate programs at accredited engineering schools whose highest degree is a doctorate:
  • Third in the Southeastern Conference
  • Thirty-third among publicly funded schools
  • Fifty-ninth nationally
• Sixteenth in the nation in number of bachelor’s degrees awarded to African-Americans, according to Black Issues in Higher Education magazine
• Thirty-second nationally in number of bachelor’s degrees awarded to women, according to the American Society for Engineering Education

1872—Becomes Agricultural and Mechanical College of Alabama; College of Engineering founded; awards degree of civil engineering to W. E. Horne, believed to be one of first engineering degrees granted by a southern institution of higher education

1886—Five-horsepower Weston electric generator installed in Langdon Hall basement, lighting engineering shops and, eventually, the town of Auburn
**Our Programs...**

- First in the nation to offer a bachelor’s degree in wireless engineering
- First in the Southeast to offer bachelor’s and master’s degrees in software engineering
- The only pulp and paper engineering program in the state of Alabama, supporting the state’s largest industry
- The only Alabama university to offer a fiber engineering program—only one of four nationally accredited programs of its kind
- Received a $1+ million grant from BellSouth for AU’s Minority Engineering Program to enhance recruitment and retention of minority engineering students
- Received a $3+ million grant from the Vodafone-US Foundation for scholarship, fellowship and program support in recognition of the college’s quality programs in wireless engineering

**Our Students...**

- Are eagerly sought after by recruiters because of their common sense, hands-on approach to engineering
- Comprise one third of all Auburn University honors students
- Include approximately one quarter of those who graduate with honors university-wide
- Participate in a wide variety of educational and fun activities beyond the classroom, gaining experience with teamwork and project management. These include the Formula SAE race car, Mini Baja SAE all-terrain vehicles, solar car, solar house, concrete canoe, steel bridge and hovercraft competitions
  - 3rd—Department of Energy Solar Decathlon
  - 5th—Formula SAE race car competition
  - 12th—American Solar Challenge
- Eighty percent of university cooperative education students are engineering majors and nearly 18 percent of all engineering students are involved in the co-op program

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1891—Establishes electrical and mechanical department; offers South’s first electrical engineering course; faculty pioneers x-ray technology and makes one of its first applications to medicine

1899—Becomes Alabama Polytechnic Institute, affirming commitment to teach ‘mechanics’ as a cornerstone of institution’s mission

1913—Thomas Edison’s chief engineer, Auburn alum Miller Reese Hutchison, donates wireless telegraph, prompting course offering in wireless telegraphy

1923—Maria Rogan Whitson earns bachelor's degree in electrical engineering, making her the institution’s first female engineering graduate
**Our Faculty...**

- Lead the Southeast in the amount of classroom time spent with students
- Maintain top ranking in research awards per faculty member among southeastern schools
- Includes veteran astronaut Jim Voss, who joined the College of Engineering as associate dean for external affairs and is teaching a course in spacecraft design

**Our Alumni...**

- Four engineering graduates—T. K. Mattingly, Jim Voss, Jan Davis, and Clifton Williams—have gone on to become NASA astronauts, and Auburn Engineering is one of the nation’s top producers of NASA engineers and scientists
- Forty-three percent of State of Alabama Engineering Hall of Fame members are Auburn graduates
- Alumnus Philip Lett designed and developed the U.S. Army’s M-1A1 main battle tank, the most successful combat weapon of its kind in history

- According to *Forbes* magazine, Auburn University has produced more CEOs for the nation’s best small companies than any university in the South and ranks fourth nationally in this category
- More than two dozen Auburn graduates currently serve as CEOs of the nation’s top corporations; others lead major government agencies
- Alumnus Kirk Newell designed and developed the self-cleaning electric range oven; alumnus William Bynum pioneered the engineering breakthroughs that revolutionized the South through air conditioning
- The quality of Auburn’s educational programs led alumnus Samuel Ginn to give the College of Engineering $25 million—among the largest cash gifts in the history of Alabama higher education and the largest single gift in Auburn University’s 147-year history
- Alumni play an active role in the College of Engineering—more than 100 graduates serve on the Auburn Alumni Engineering Council acting as advisors in all aspects, from curriculum and accreditation to communications to student recruitment

1925-1959—First five facilities comprising Engineering Quad constructed—Dunstan, Ramsay, Ross, Textile and Wilmore

1960—Becomes Auburn University

1984—Establishes computer science and software department
Our Research...

- Among southeastern schools, Auburn maintains top ranking in research awards per faculty member
- The College of Engineering is a nationally recognized leader in three of seven primary research areas—called Peaks of Excellence—at Auburn University:
  - Information technology
  - Transportation
  - Detection and food safety
- Inventions include...
  - A hand-held instrument that detects Salmonella and other harmful bacteria in less than two minutes using acoustic wave sensors
- A new energy source to replace batteries in NASA’s satellites, improving global communication technology by extending their life in orbit through use of flywheels made of graphite fiber composites that serve as solar power generators

- Anti-terrorism efforts through...
  - Microfibrous technology that includes:
    - A self-regenerating air-filtration system that removes chemical contaminants in building air handling systems, military installations, hospitals, airplanes and vehicles
    - Clean-air filtration systems and gas mask canisters that enable long-lasting protection and breathing comfort; microfibrous technology allows for smaller, lighter canisters
  - Advancing the sophistication of Micro Aerial Vehicles (MAV) by adding vertical flight capability. A MAV is a very small, unmanned, extremely fast and lightweight vehicle that has military and civilian uses including field surveillance, reconnaissance, intelligence collection, combat applications and disaster monitoring
  - A bullet-resistant material that weighs less and is more comfortable than existing material and offers far superior resistance

1984-1986—Two new facilities constructed for Engineering Quad—Broun Hall and Harbert Engineering Center

1999—Offers Southeast’s first bachelor’s and master’s degrees in software engineering

2002—Offers nation’s first wireless engineering degree
Auburn University is an equal opportunity educational institution/employer