

# Samuel Ginn College of Engineering

Founded 1908  
State's largest engineering program  
Auburn's largest college



AUBURN  
UNIVERSITY



## NATIONAL RANKINGS PUBLIC INSTITUTIONS<sup>1</sup>

Undergraduate Program 32<sup>nd</sup>  
Graduate Program 41<sup>st</sup>

## MINORS

Automotive Engineering  
and Manufacturing Systems  
Business-Engineering-Technology  
Computer Science  
Information Technology  
Nuclear Power Generation Systems

## ACADEMIC PROGRAMS

Aerospace Engineering  
Biosystems Engineering  
Chemical Engineering  
Civil Engineering  
Computer Science and Software Engineering  
Electrical and Computer Engineering  
Industrial and Systems Engineering  
Mechanical Engineering  
Materials Engineering  
Polymer and Fiber Engineering  
Wireless Engineering

## STUDENTS

### Enrollment

Undergraduate 4,018  
Graduate 834  
Total enrollment 4,852

- 18 percent female
- 13 percent minority
- More than \$2 million in scholarships awarded by the college

### Freshman Class Snapshot

- 72 National Merit finalists,  
16 National Hispanic Scholars  
and 11 National Achievement  
finalists (minority student award)
- Average ACT/SAT 28.8/1298
- Average High School GPA 3.9

### Degrees Awarded

Bachelor 516  
Masters 170  
Doctorate 57



## FACULTY

142 tenure/tenure track faculty

### Snapshot

- 2 National Academy  
of Engineering members
- 59 named professorships
- 4 eminent scholar chairs
- 4.3 percent women
- 4.2 percent minority

## RESEARCH

### Focus Areas

- Energy and the Environment
- Cybersecurity and Commerce
- Health and Biomedical Engineering
- Infrastructure and Transportation

### Research Expenditures<sup>2</sup>

\$55.5 million  
46th in nation in research expenditures

### Commercialization (2000-2010)

Disclosures 273  
Patents 38  
License/Options 34

Information in this report is from Auburn University except as noted.

<sup>1</sup> 2010-2011 U.S. News & World Report

<sup>2</sup> 2010 American Association of Engineering Educators (ASEE)

# OUTREACH

## Continuing Education Programs

- 95 live seminars and conferences, serving 3,374 customers
- 97 distance continuing education courses delivered by DVD or streaming video, serving 1,650 students in 50 states and international locations

## Distance Degree Program

- 305 active students from 36 states
- Course registration
  - Spring 2010 518
  - Summer 2010 278
  - Fall 2010 579
- 2010 Graduates 85

# PHILANTHROPY

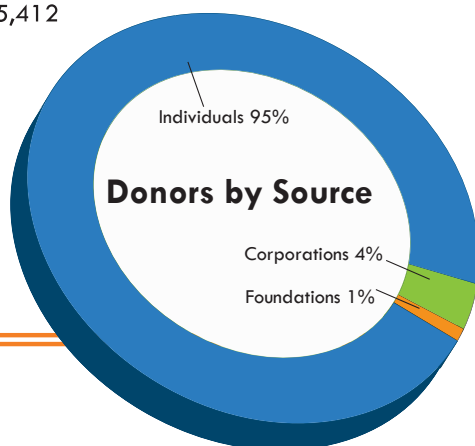
Alumni Base 33,933  
Engineering Donors 5,412

## 2010 Fundraising

Goal: \$12 million  
Actual: \$17 million

## 2011 Fundraising

Goal: \$13 Million



# GOALS

- Recruit lead faculty in cybersecurity, magnetic resonance imaging, alternative energy technology, nuclear power generating systems, biomedical engineering and highway pavement design, with an emphasis on enhancing and expanding research in these areas
- Continue to broaden international academic experiences for undergraduate students
- Increase extramural research funding 10 percent per year for the next five years
- Enhance research activities in support of homeland security
- Expand research activities to address public health issues
- Establish a medical imaging research institute

# STEM

## Science, Technology, Engineering, Mathematics (STEM) activities

- BEST Inc. – the nation's third largest K-12 robotics program, serving 12,500 students from 850 schools in 15 states
- E-Day – engineering open house providing thousands of middle and high school students with a window into careers in engineering
- TIGER Camps – residential summer programs, one for 8th and 9th graders, and one for 10th and 11th graders, giving students hands-on engineering experience
- Robo and Computer Camps – day camps targeted at increasing computer literacy in students in grades 5-12
- Laboratory for Innovative Technology and Engineering Education (LITEE) – develops programs to retain college-level engineering students
- NSF collaborative grant – develops studio-based learning activities to improve student retention in university computer science and software engineering programs

# WORTH NOTING

- Freshman class size in excess of 1,000 students
- Increased freshman National Merit Scholars from less than 10 to more than 50 in three years
- Improved first-year retention
- Established a minor in Nuclear Power Generation Systems
- Launched Engineers Without Borders chapter
- Created three engineering living/learning communities – co-ed, female and African American
- 18 percent increase in graduate students in the past five years
- Established MRI Research Center, housing 3T and 7T scanners
- Top 50 in research expenditures for the past four years
- Exceeded vision fundraising goal of \$153.5 million
- Completed 10-year, \$154 million facility enhancement program