







Nine academic units

- Harrington Department of Bioengineering
- Department of Chemical Engineering
- **Department of Civil and Environmental** ٠ Engineering
- School of Computing and Informatics
- Del E. Webb School of Construction
- ٠ Department of Electrical Engineering
- **Department of Industrial Engineering**
- School of Materials
- Department of Mechanical and Aerospace ٠ Engineering



IS FULTON ARIZONA STATE UNIVERSIT

Reputation and Rankings

- Top 50 ranking for engineering programs nationally:
 - 39th of 105 undergraduate programs ranked
 - 47th of 185 graduate programs ranked
- Five of 10 graduate specialties rank in top 30; all in top 50
- Computer science Ph.D. program ranks 51, moving up from 55 last year
- DEWSC continues to be one of the top construction schools in the nation



2007 Graduate Specialty Rankings

- 17 Industrial 22 – Aerospace
- 23 Environmental
- 24 Bioengineering
- 29 Electrical 31 – Mechanical
- 34 Civil
- 35 Materials (2008)
- 39 Computer engineering 45 - Chemical

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Students and Alumni

Student Demographics – President Crow priority

- -- need to improve!
- African American-3% Hispanic-10%
- Native American-2% International-18%
- Women-19%

Honors Students

IAFSE students represented 15% of all students attending Barrett, The Honors College at ASU.

Merit Scholars

IAFSE students represented 22% of first-time freshmen Merit Scholars and 20% of total Merit Scholars attending ASU.

Scholarship Awards

"Source: Institutional Analysis, Fall 2005 21" day

358 students received a total of \$636,000 in private funds for merit-based scholarships.



Alumni More than 27,000 Fulton School alumni are advancing the fields of engineering and technology nationally and around the world.

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What do faculty do?

- Teach undergraduate and graduate classes
- Lead research in the laboratory, field or virtual space. Faculty conducted over \$50 million in research productivity last year.
- Mentor graduate and undergraduate students and post-doctoral researchers conducting research
- Serve on department, school and university committees
- Active involvement in professional associations, national research programs, review proposals and articles



Engineer 2020 – National Academies Press

- Strong analytical skills
- Practical ingenuity
- Creativity (innovation, invention, think outside the box, art)
 Craig Barrett: "Ideas create wealth; Education creates jobs"
- Good communication
- Business & management skills
- Leadership skills
- High ethical standards
- Professionalism
- Dynamism, agility, resilience, flexibility
- Life-long learners

We want these attributes for our students!

We (IAFSE) need to embody these same attributes



Fulton Undergraduate Research Initiative (FURI)

- With the initiatives set out in FURI, you can greatly expand and enrich your undergrad research experience AND be on the top of the hiring list when it comes to starting your career.
- Students, in collaboration with mentors, will make proposals to fund the work they want to perform. Undergrad's earn money for creating knowledge based upon the scholarly method. Motivated students will find a thrilling experience in the intellectual community while enriching their graduate school aspirations or entry into industry. What better way to maximize your potential in engineering?
- Students will be paid an hourly rate of \$8.50 for 10 hours weekly equaling a total of \$1360 per semester. Students will be paid bi-weekly. Of course, students must perform to the mentor's satisfaction to receive the entire semester employment. The cost of supplies, up to \$400, may be covered. Mentors will receive \$500 (after the student completes the semester in FURI).







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