make. code. fly. build. design. engineer.

Ira A. Fulton Schools of Engineering at ASU
Not your typical Engineering School

- Six schools, two campuses + online
- 60+ degree options
- Students from all 50 states and 121 countries

On a steep growth trajectory: investments in student support, faculty hires, facilities

The “Fulton Difference”

Track record of supporting industry

We seek partners who desire a high level of engagement with our programs
School of Biological and Health Systems Engineering
Marco Santello, Director
1,095 students
921 undergraduate
174 graduate
biomedical engineering
biological design

School of Computing, Informatics, and Decision Systems Engineering
Ronald Askin, Director
5,191 students
3,770 undergraduate
1,321 graduate
computer engineering
computer science
computer systems engineering
engineering management
industrial engineering
informatics
software engineering

School of Electrical, Computer, and Energy Engineering
Steve Phillips, Director
2,707 students
1,838 undergraduate
869 graduate
electrical engineering
computer engineering

School for Engineering of Matter, Transport and Energy
Lenore Dai, Director
3,985 students
3,276 undergraduate
709 graduate
aerospace engineering
chemical engineering
materials science and engineering
mechanical engineering
solar energy engineering and commercialization

School of Sustainable Engineering and the Built Environment
Edd Gibson, Director
1,641 students
1,220 undergraduate
421 graduate
civil, environmental and sustainable engineering
construction engineering
construction management
sustainable engineering

The Polytechnic School
Ann McKenna, Director
4,031 students
3,780 undergraduate
251 graduate
aviation engineering
environmental and resource management
graphic information technology
human systems engineering
information technology
manufacturing engineering
technological entrepreneurship and management

6 interdisciplinary schools • 24 undergraduate programs • 30 graduate programs • 2 campuses
focused on student success

19,076 fall 2015 enrollment
Investment fuels growth and success

- Enrollment increased from about 7,000 in 2007 to more than 19,000 students in 2015.
- Our graduation rates have doubled over the last six years.
- One in five ASU students is enrolled in the Ira A. Fulton Schools of Engineering.

2,801 first-time freshmen fall 2015
3,076 degrees granted 2014–2015

30% of Barrett, the Honors College students are in the Fulton Schools
Continued Growth and Student Success

**Freshman Retention**

*Freshmen enrolled in the Fulton Schools*

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<tbody>
<tr>
<td>Fall</td>
<td>87%</td>
<td>85%</td>
<td>87%</td>
<td>88%</td>
<td>85%</td>
<td>86%</td>
<td>89%</td>
<td>90%</td>
<td>87%</td>
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**Engineering Degrees Awarded**

*Ph.D.*

*Master’s*

*Undergraduate*

<table>
<thead>
<tr>
<th>Year</th>
<th>05-06</th>
<th>06-07</th>
<th>07-08</th>
<th>08-09</th>
<th>09-10</th>
<th>10-11</th>
<th>11-12</th>
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<tbody>
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<td>837</td>
<td>863</td>
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<td>764</td>
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<td>753</td>
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<td>713</td>
<td>739</td>
<td>863</td>
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use-inspired research

$89.33M research awards

$89.06M research expenditures

1,000+ students conducting research

New facilities: College Avenue Commons, eSpaces, Brickyard Mezzanine and Interdisciplinary Science and Technology Building 4
new faculty

<table>
<thead>
<tr>
<th>Lecturers and Professors of Practice</th>
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<tbody>
<tr>
<td>Ruben Acuna, M.S., Arizona State University</td>
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<tr>
<td>Steve Cho, Ph.D., University of Michigan; MBA, UCLA</td>
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<tr>
<td>Michael Clough, M.S, Arizona State University</td>
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<td>Gregory Files, M.S., South University</td>
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<td>Usha Jagannathan, MCA, Bharathiar University, India</td>
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<tr>
<td>Cheryl Jennings, Ph.D., Arizona State University</td>
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<td>Chad Kennedy, Ph.D., Arizona State University</td>
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<tr>
<td>Joshua Loughman, M.S., Arizona State University</td>
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<td>Shankar Ramakrishnan, M.S., Arizona State University</td>
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<td>Thomas Roberts, Ph.D., Arizona State University</td>
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<td>Brent Sebold, Ed.D., Arizona State University</td>
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<tr>
<td>Justin Selgrad, M.S., Washington University, St. Louis</td>
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<td>Abdel Rahman Shuaib, Ph.D., University of Wisconsin-Madison</td>
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<td>David Taylor, Ph.D., Arizona State University</td>
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<td>Michael Van Auker, J.D., Santa Clara University</td>
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<tr>
<td>School of Law and Ph.D., University of Pittsburgh</td>
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<tr>
<td>Katherine Wallmueller, M.A.S., Embry Riddle Aeronautical University</td>
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<tr>
<td>Daniel B. White, Ph.D., MIT</td>
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<tr>
<td>Marnie Wong, M.S., Arizona State University</td>
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<table>
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<th>2015–2016</th>
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<tr>
<td>Daniel Aukes, Ph.D., Stanford University</td>
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<tr>
<td>Heni Ben Amor, Ph.D., Technical University Freiberg, Germany, and Osaka University, Japan</td>
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<tr>
<td>Otakuye Conroy-Ben, Ph.D., University of Arizona</td>
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<td>Shuguang Deng, Ph.D., University of Cincinnati</td>
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<td>Mohammad Ebrahimkhani, M.D., Tehran University of Medical Sciences</td>
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<td>Julianne Holloway, Ph.D., Drexel University</td>
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<td>Feng Ju, Ph.D., University of Wisconsin-Madison</td>
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<td>Samira Kiani, M.D., Tehran University of Medical Sciences</td>
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<td>Richard King, Ph.D., Stanford University</td>
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<td>Hyunglae Lee, Ph.D., MIT</td>
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<td>Qin Lei, Ph.D., Michigan State University</td>
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<td>Jeremi London, Ph.D., Purdue University</td>
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<td>Hamid Marvi, Ph.D., Georgia Institute of Technology</td>
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<td>Brent Nannenga, Ph.D., University of Washington</td>
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<td>Paolo Papotti, Ph.D., Università Roma Tre, Italy</td>
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<td>Ted Pavlic, Ph.D., The Ohio State University</td>
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<tr>
<td>Francois Perreault, Ph.D., Université du Québec à Montréal, Canada</td>
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<td>Panagiotis Polygerinos, Ph.D., King's College, London</td>
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<td>Jiangchao Qin, Ph.D., Purdue University</td>
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<td>Jorge Sefair, Ph.D., University of Florida</td>
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<td>Giorgios Trichopoulos, Ph.D., The Ohio State University</td>
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<tr>
<td>Wenlong Zhang, Ph.D., University of California, Berkeley</td>
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<tr>
<td>Ming Zhao, Ph.D., University of Florida</td>
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</table>
We are leading **critical national initiatives**

**QESST NSF-DOE Engineering Research Center** with partners MIT, Caltech, Georgia Tech and others

**CBBG NSF Engineering Research Center** with partners Georgia Tech, New Mexico State and UC Davis

Partner on Rice University-led NEWT NSF Engineering Research Center with Yale and UTEP

**NSF I/UCRCs** (Industry/University Cooperative Research Programs):
- PSERC, Connection One, SenSIP, WET, Center for Embedded Systems

**Two NSF IGERTs** (Integrative Graduate Education and Research Traineeship)

**Six MURI awards** (Multidisciplinary University Research Initiatives); 11 total since FY2005

$18 million from USAID to establish the Partnership Center for Advanced Studies in Energy (PCASE) to improve power production in Pakistan

**HEEAP, Higher Engineering Education Alliance Program** (Intel, Siemens) $20M cash and more than $50M in-kind donations by academic, government and industry partners

**20 young investigator awards** from NSF CAREER, AFOSR YIP, DARPA YFA, and NIH Directors/Development over the past two years
research centers and institutes

Engineering Research Centers (ERCs)
Quantum Energy and Sustainable Solar Technologies (QESST) an NSF-DOE Engineering Research Center
Center for Bio-mediated and Bio-inspired Geotechnics (CBBG)
Nanotechnology Enabled Water Treatment Systems Center (NEWT)

NSF Industry/University Cooperative Research Centers (I/UCRCs)
Center for Embedded Systems Connection One
Power Systems Engineering Research Center
Sensor, Signal and Information Processing Center
Water and Environmental Technology Center

Adaptive, Intelligent, Materials and Systems (AIMS)
Advanced Technology Innovation Center
Algae Testbed Public-Private Partnership (ATP3)
Arizona Center for Algae Technology and Innovation (AzCATI)
Arizona Initiative for Renewable Energy
Arizona Institute for Nano-Electronics
ASU Advanced Photovoltaics Center
Center for Adaptive Neural Systems
Center for Applied Nanoionics
Center for Assured and Scalable Data Engineering (CASCADE)
Center for Bioelectronics and Biosensors
Center for Biosignature Discovery Automation
Center for Cognitive Ubiquitous Computing
Center for Computational Nanoscience
Center for Earth Systems Engineering and Management
Center for Environmental Fluid Dynamics
Center for Environmental Security
Center for Negative Carbon Emissions
Center for Photonics Innovation
Center for Renewable Energy
Electrochemistry
Center for Research on Education in Science, Mathematics, Engineering and Technology
Center for Science and the Imagination
Center for Solid State Electronics Research
Center for Sustainable Health
Construction Research and Education for Advanced Technology Environments
Decision Theater
Flexible Display Center
Global Security Initiative
Information Assurance Center
LeRoy Eyring Center for Solid State Science
Lincoln Center for Applied Ethics
National Center of Excellence on SMART innovations
Partnership for Research in Spatial Modeling
Swette Center for Environmental Biotechnology
Degree programs on the Tempe campus
Many with different areas of emphasis

- Aerospace engineering
- Biomedical engineering
- Chemical engineering
- Civil engineering
- Computer science
- Computer systems engineering
- Construction engineering
- Construction management
- Electrical engineering
- Engineering management
- Industrial engineering
- Informatics
- Materials science and engineering
- Mechanical engineering
Degree programs on the Polytechnic campus with different areas of emphasis

- Aeronautical management technology
- Engineering
- Environmental and resource management
- Graphic information technology
- Industrial and organizational psychology (Human systems engineering)
- Information technology
- Manufacturing engineering
- Software engineering
- Technological entrepreneurship and management
The Fulton Difference
solid coursework foundation
experiential learning
focus on student success
culture of peer mentoring
SARAH GALVIN
Governor’s Future Innovators of the Year Award

high-achieving students
BRETT LARSEN & MORGAN KELLEY
Goldwater Scholars

MAC GIFFORD Fulton Schools
Dean’s Fellowship, EPA STAR (Science to Achieve Results) fellowship

engineering.asu.edu/achieve
connecting employers

Dedicated career center
Career Exploration
Sun Devil CareerLink
First-year experience visibility

Internships and Co-ops: building a prepared workforce
Capstone and eProjects: mentoring and support

EPICS Projects: Hands on experience through student competition teams
forging strategic partnerships

- talent acquisition
- research collaboration
- information sharing
- joint funding opportunities
- continuing education programs
- enriching the student experience