Civil engineering student Emily Alcazar worked to advance the current state of 3D-printed concrete in Professor Narayanan Neithalath’s lab for a future of faster, cheaper and cleaner construction.
We build engineers and inspire innovators.

As the demand for well-prepared engineers, builders, makers, designers and innovators continues to grow, the Ira A. Fulton Schools of Engineering strives to set the standard for engineering education, research and entrepreneurship through our world-class teaching, learning and research environments.

We understand — and embrace — our obligation to the economic vitality of our region through the workforce we develop and train and the research advances our faculty achieve.

Our size and diversity, global connections and ability to rapidly innovate have cornered the market for engineering in Arizona and the Southwest.

We see a changing world that needs your ideas right now. The Fulton Schools focus on creating solutions for problems happening right now in energy, health, sustainability, security and education. This means getting outside of the classroom from day one to conduct the use-inspired research that will transform our world.

ASU is a comprehensive public research university, measured not by whom we exclude, but rather by whom we include and how they succeed; advancing research and discovery of public value; and assuming fundamental responsibility for the economic, social, cultural and overall health of the communities it serves. Learn more about ASU at newamericanuniversity.asu.edu

#1 in the U.S. for innovation

Fall 2018 Enrollment

18,012 Bachelor’s
22,458 Total

209 National Merit Scholars
172 National Hispanic Scholars
25 Undergraduate programs
41 Graduate programs
2 Campuses + online
30% of Barrett, the Honors College students are in the Fulton Schools
1. **Engineers from day one.** More than a discipline, engineering is a mindset, a way of looking at the world. Students in the Fulton Schools are part of a community of problem solvers, people who are passionate about designing and making innovative and entrepreneurial solutions.

2. **We combine a strong coursework foundation with hands-on experiences.** Being a student in the Fulton Schools is a lot more than completing assignments. We provide a wide range of experiential learning opportunities — tour a job site, build a model or collaborate with professionals from diverse disciplines to solve a problem in your local community.

3. **More than 57,000 Fulton Schools alumni** are advancing the fields of engineering and technology in Arizona and around the world. Our highly regarded graduates are actively recruited by top companies and many go on to pursue graduate studies in areas such as medicine, law, engineering and science.

4. **We foster an entrepreneurial mindset.** Aspiring entrepreneurs can find like-minded students in the Generator Labs or at signature programming. Entrepreneurial programs at ASU award nearly half a million dollars in seed funding each year to Fulton Schools students, faculty and alumni.

5. **The Fulton Schools are leading two world-class engineering research centers** — the National Science Foundation-funded Center for Bio-mediated and Bio-inspired Geotechnics and the Center for Quantum Energy and Sustainable Solar Technologies, which is jointly funded by the NSF and Department of Energy.

6. In our state-of-the-art labs and more than **50 research centers and institutes**, you will find faculty, graduate and undergraduate students working on engineering solutions to challenges in health, energy, security, sustainability and education through programs like Fulton Undergraduate Research Initiative and Grand Challenge Scholars Program.

7. **The Fulton Schools have a dedicated career center** that offers coaching to students from day one all the way through jobs searches for alumni. We host career fairs every fall and spring semester and on-campus interviewing with top companies. The Fulton Schools Career Center offers coaching and career planning services to students from their first semester and continues all the way through jobs searches for alumni.

8. We have **more than 60 engineering student organizations and teams** engaged in activities from rockets to robots — a great way to get hands-on experience, make connections with industry and have fun. Our students and student teams participate in and win national competitions.

9. **We attract top faculty.** Our faculty members measure their success not only by the impact of their research locally and globally, but also by the success of students in their classrooms. Our faculty includes a Nobel Laureate and members of the National Academy of Engineering, National Academy of Sciences and the National Academy of Construction.

10. **ASU is ranked #1 in the U.S.** for innovation for the fourth year in a row, top 10 in the U.S. for employability and the #1 public university chosen by international students.
## Fulton Schools
### Undergraduate Programs

<table>
<thead>
<tr>
<th>Program</th>
<th>Campus</th>
<th>Degree, Concentrations</th>
<th>4+1</th>
<th>Minor</th>
<th>Certificate</th>
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<tbody>
<tr>
<td>Aerospace engineering</td>
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<td></td>
<td></td>
<td>Concentrations: aeronautics, astronautics, autonomous vehicle systems</td>
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<tr>
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<td></td>
<td></td>
<td>Concentrations: air traffic management, air transportation management, professional flight, unmanned aerial systems</td>
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<tr>
<td>Applied science — exclusively for AAS students</td>
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<tr>
<td></td>
<td></td>
<td>Concentrations: aviation, graphic information technology, internet and web development, operations management</td>
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<td>Concentrations: internet and web development, operations management</td>
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<td>Biomedical engineering</td>
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<td>Chemical engineering</td>
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<td>Concentration: sustainable engineering</td>
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<td>Computer science</td>
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<td></td>
<td></td>
<td>Concentrations: cybersecurity, software engineering</td>
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<td>Computer gaming</td>
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<td>Concentration: electric power and energy systems</td>
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<td></td>
<td>Concentrations: automotive systems, electrical systems, mechanical engineering systems, robotics</td>
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<td>Engineering management</td>
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Apply today [admission.asu.edu/apply](https://admission.asu.edu/apply)
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<tr>
<td>Human systems engineering</td>
<td>Polytechnic</td>
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<tr>
<td>Manufacturing engineering</td>
<td>Polytechnic</td>
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<tr>
<td>Materials science and engineering</td>
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<td>Concentrations: computational mechanics, energy and environment</td>
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<td>Software engineering</td>
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**Admission requirements**

Admission requirements for many majors in the Ira A. Fulton Schools of Engineering are higher than university admission standards. Please review the admissions requirements online for a complete list of degree programs requiring higher admission standards.

[engineering.asu.edu/admission-requirements](http://engineering.asu.edu/admission-requirements)

**How to apply**

1. Find your academic program of interest in ASU's Degree Search. [asu.edu/desegreesearch](http://asu.edu/desegreesearch)
2. Review the Admission Requirements section for your program. This section covers admission standards and materials required to complete an undergraduate application for that program.
3. Review the ASU admission timelines. [admission.asu.edu/apply](http://admission.asu.edu/apply)
4. Complete the application for admission.
5. Pay the application fee.
6. Send official transcripts, academic records, test scores and additional support materials for your program of interest.

Find more information about applying [admission.asu.edu/apply](http://admission.asu.edu/apply)
Academic Bowl

The Academic Bowl pits teams from ASU’s colleges and schools against each other in lightning-fast question-and-answer rounds. Questions can cover any topic — from world politics and pop culture, to history and geography, to world literature. If you have a passion for learning, possess a wide range of knowledge about various (possibly obscure) topics and can quickly hit a buzzer, consider trying out for the team. Not only will you have a blast firing off answers in a fast-paced event, but you also have a chance to win scholarship money and the coveted championship title.

Accelerated programs

Accelerated programs offer exceptional students the opportunity to combine advanced undergraduate coursework with graduate coursework to save time and money.

Career Fairs Volunteer/Employer Liaison

As a volunteer at one of the Fulton Schools career fairs, you will be able to network with recruiting managers and learn more about positions available with their companies. Another way to get involved is through student organizations as an employer relations representative working directly with employers, honing your business communications, customer service and event planning skills.

Devils Invent

Devils Invent is a series of weekend-long engineering and design challenges. You will work with other entrepreneurially minded students to design, build and implement innovative solutions to challenging problem statements submitted by community, industry and university partners.

E2 Camp Counselors (E2C2s)

E2 is an innovative program that welcomes all freshmen to our Fulton Schools of Engineering community. Upper-division students serve as counselors for this fun, multi-day, off-campus program. E2C2s help incoming students learn skills that are important to their success in the Fulton Schools of Engineering through a variety of fun and interactive activities.

EPICS: Engineering Projects in Community Service

The Engineering Projects in Community Service program, known as EPICS Gold at ASU, is an award-winning community service and social entrepreneurship program. Through EPICS, you have the opportunity to get a hands-on approach to problem solving while making an impact in the community. EPICS will help you enter the workforce with the ability to design innovative solutions to meet client needs in a dynamic environment. Our newly opened Generator Labs is now available as a gathering point to help develop and nurture your entrepreneurial skills and collaborate with other students.
eProjects program and capstones

Through capstone projects and the eProjects program, you will work as part of a team to solve a challenge defined by an industry partner. Faculty and industry mentors will offer guidance and support throughout your team's project development process. Project results are then presented at the end of each semester, for industry partners and the public to attend.

Entrepreneurship + Innovation @ Fulton Schools

E+I @ Fulton Schools empowers you to advance your entrepreneurial ideas for the benefit of our economy and society. E+I @ Fulton Schools offers signature entrepreneurship events, programs, courses, degrees, expert mentoring, venture funding and workspaces to help develop technology innovation and marketplace impact.

Fulton Ambassadors

Fulton Ambassadors are a select group of students who support the Fulton Schools as representatives at recruitment events with prospective students and outreach activities. In addition to developing professional and leadership skills, as a Fulton Ambassador, you will also receive a letter of recommendation from the dean.

Fulton Schools and Barrett Honors

Many Fulton Schools of Engineering undergraduate students are part of the unique community at Barrett, The Honors College. Honors students enjoy select opportunities to travel abroad, earn scholarships, attend special events specifically for honors students, and receive funding to travel and complete their creative projects/theses. Students have the opportunity to stretch their learning capabilities through a customized honors curriculum.

FURI: Fulton Undergraduate Research Initiative

As a FURI researcher, you will solve real-world problems; investigate possible career paths; build a mentoring relationship with a faculty member outside of class; gain a competitive advantage for graduate school or jobs and internships; and gain essential skills for career success. Through this paid research opportunity, you will conduct research with a faculty mentor and present your research findings at a semiannual FURI Symposium. FURI allows you to experience every step of a research project from the initial proposal for funding to the final presentation of your accomplishments and hard work.

Generator Labs

The Fulton Engineering Startup Center empowers all Fulton Schools undergraduate and graduate students to advance their entrepreneurial ideas for the benefit of our economy and society. The Startup Center offers signature entrepreneurship and innovation courses, workshops, expert mentoring, new venture competitions, and other curricular and extracurricular events that expose students to the concepts of technology innovation and marketplace impact. Generator Labs allows you to collaborate with students from EPICS and feed your entrepreneurial endeavors.

Grand Challenge Scholars Program

Grand Challenge Scholars receive the well-rounded preparation needed to tackle complex social issues in the areas of health, energy, sustainability, security and education. Students admitted to the Grand Challenge Scholars Program combine experiences in research, service learning, entrepreneurship and leadership, with the development of a global perspective and interdisciplinary thinking. Grand Challenge Scholars receive a unique endorsement from the National Academy of Engineering upon completion of the program.
Internships and Cooperative Education Program

Gain practical work experience related to your major through experiential learning programs offered by our industry partners in conjunction with the Fulton Schools of Engineering and our Career Center. Internships are usually one summer of supervised work experience related to your chosen career field. The Cooperative Education Program (co-op) is a longer-term commitment that alternates semesters of formal classroom education with major-related practical work experience, thereby helping students make the school-to-work transition. These opportunities foster professional, personal and skill development, and are usually paid.

Order of the Engineer and Pledge of Computing Professionals

Order of the Engineer and Pledge of the Computing Professional are rite-of-passage ceremonies for students graduating in engineering and computing sciences programs. Both ceremonies are intended to promote and recognize the ethical and moral behavior in graduates.

Outreach

Work with outreach programs such as field trip days, FIRST® LEGO League and more to promote science, technology, engineering and math in the community and engage younger students in the excitement of what we do every day. This is a chance to gain valuable mentoring skills, volunteer experience and inspire others to pursue studies or careers in engineering and technology.

Peer Career Coaches

Peer Career Coaches are trained to help other students explore career options in their major through one-on-one meetings and by facilitating workshops that will help prepare students for a future in engineering and technology. These upper-division students help navigate the career-related opportunities available to first year students and connect you to resources for internships, jobs and career events.

Peer Mentors

All freshmen — whether living in one of our residential communities, commuting to campus or enrolled in our online programs — are assigned a peer mentor who provides referrals to academic resources across campus, hosts events to ensure new students feel connected to the Fulton Schools and guides freshmen through the transition to ASU.

Student Council

The Fulton Schools of Engineering Student Council serves as an umbrella group for all student organizations registered with the Fulton Schools. Student Council members have the opportunity to develop leadership skills, understand organizational structures, network with Fulton Schools faculty and staff, and serve as a conduit for communication between students, student organizations and the dean to help shape the future of the college.

Student organizations and teams

If you are interested in fun, leadership, outreach, career growth and networking opportunities, you should check out opportunities with the more than 60 student organizations and teams in the Fulton Schools of Engineering. There are honors and professional societies, diversity organizations, service and major-specific groups and competitive teams that provide ample opportunities for you to find a group that suits your needs, whether it is gaining hands-on experience working on a team or socializing with peers who share the same passion.

Summer camp counselors

Each summer, we host a number of summer camps designed to engage K-12 students in science, technology, engineering and math-related activities. From robotics to mobile application creation, our goal is to share the excitement of engineering and technology with aspiring future problem solvers.

Study Abroad

Experience a new culture, learn professional practices used outside of the U.S., become competitive in a global job market and see the world in a new way. Visiting a different country is a valuable opportunity to expand your worldview and gather insight and inspiration from a different perspective. From exchange and partnership programs, to faculty-directed summer programs, the study abroad experience will enhance your understanding of engineering and technical concepts, global business perspectives, world issues and societies.

Tutoring

Tutors are undergraduate and graduate students employed to help you with your math, science and engineering classes. Newly remodeled locations offer plenty of free tutoring for all of your homework needs. ASU also offers tutoring online and in your residential hall.

Undergraduate Teaching Assistants

The Undergraduate Teaching Assistant (UGTA) program hires successful undergraduate students to serve as teaching assistants in Fulton Schools of Engineering classes. UGTAs assist faculty members by leading, engaging and mentoring students in exploratory and collaborative learning activities within the classroom and lab environment.
Career planning starts day one
At the Fulton Schools we see all of the effort and dedication that you put into your future. We provide year-round services to all of our students – whether you are looking for guidance on selecting a major, seeking an internship or getting ready to interview for your next dream job. Planning for your career is so much more than creating a résumé. The Fulton Schools Career Center can help you hone your strategy to find summer internships, co-ops and other opportunities that will help you build your future career.

Connect with the Fulton Schools Career Center
Get advice on what employers seek, how to design your résumé and project portfolio, and how to prepare for job fairs and interviews, from peer career coaches who share your interests, major or Fulton School. Professional staff provide specific information to guide your career decisions. Together, they can direct you to become a competitive candidate.

Develop your personal brand
Turn all of your experiences into your unique brand. We can answer questions about how to maximize your college experience. From your first year through your senior year, learn how getting involved early in student organizations, research opportunities and class projects that can make you a more competitive candidate. Find experiences, internships and co-ops to get real-world work.

We can help transition your accomplishments into a distinguished internship-ready or new professional-ready résumé that clearly demonstrates what you have to offer a company. Learn how to present yourself at interviews, career fairs and networking events to set yourself apart from the competition.

Preparation sessions
Each semester, attend workshops and use online tools to design your résumé, prepare for job fairs and interviews or explore majors. Learn what company representatives look for and be confident in your ability to impress.

Internships and Co-op Program
Gain major-related experience and possibly earn academic credit as a full-time summer intern or a part-time intern during the fall or spring semester. Cooperative education programs (Co-ops) offer academic credit for longer-term work experiences and help you make a smooth school-to-work transition. Work full-time in your chosen field for a continuous summer-fall or spring-summer term and still be on track to graduate in four to five years. Co-ops are available starting sophomore or junior years. Get work experience while enrolled at ASU to enhance your education and career preparation.

Company information sessions and competitions
Companies visit ASU throughout the academic year, especially around Career Fairs, to talk with our students about opportunities, their latest projects and cutting edge technologies. Learn firsthand about your options as you make a positive impression on companies. Check Handshake for upcoming events and opportunities with companies, including technical talks and exciting competitions.

Career Fairs
Attend the Fulton Schools Career Fairs in the spring and fall. Research companies and apply for positions before a career fair. Make an impression on company representatives eager to meet the next generation of professionals. You may even be invited to interview on campus with multiple employers. Also, don’t miss the “Preparing for the Recruiting Season” presentation series leading up to the fairs.

New alumni
Schedule an appointment with your career coach. The Fulton Schools continue to support you and your successes even after you have graduated.
Hoolest startup generates relief that people can feel

Hoolest Performance Technologies, a student startup led by biomedical engineering graduate student Nicholas Hool, seeks to create an earbud device that reduces the effects of performance anxiety, stress and nervousness. They competed at the ASU Innovation Open and won first place. The $100,000 prize will be invested in creating their earbud devices, which block stress by stimulating the vagus nerve.

Freshmen continue to test their metal in national “Domesday Competition”

Materials science and engineering freshmen secured ASU’s placement in the top three for the past four years in a national geodesic dome competition. They selected lightweight aluminum as their material of choice and predicted where the dome would fail and at what stress level. They received the highest presentation score, likely due to their use of Autodesk Inventor in order to predict outcomes from their design.

Humanitarian engineering student opens window to education in Vanuatu

Brittany Blevins knows that engineers have a great responsibility to society. She joined a team that brings a digital library contained on a ruggedized, portable solar-powered device called SolarSPELL to far-flung regions. The devices improve access to education which creates value for teachers and students who can, in turn, help them improve their own communities. “Engineers have a great responsibility to society,” Blevins says. “With the speed at which technology is advancing, it is a field that needs skilled people more than ever.”

ASU interns serve enticing digital experiences for Starbucks customers

A team of 10 computer science and software engineering students are working with Starbucks, to become a leading force in digital engagement, providing consumers with seamless rewards, ordering and payment platforms supported by a state-of-the-art, enterprise-level “back end” that keeps it all running smoothly. The students, who began as interns in September, have been working as teams in three technology areas: information security, application development and business intelligence.

Win-win situation for Fulton Schools teams at Academic Bowl

In a matchup between classmates, two teams of Fulton Schools students faced off in the 2018 ASU Academic Bowl title match. The event showcased intellectual talent and school spirit by pitting 16 teams from various ASU colleges against each other in a trivia competition that covers everything from political science to pop culture. The Maroon team earned $24,000 in scholarship funding for winning the title, while the Gold team won $10,000 for their second-place finish.
BMES student chapter earns national recognition
ASU’s BMES chapter received the Commendable Achievement Award for the 2016-2017 academic year at the at the BMES Annual Meeting. The Commendable Achievement Award recognizes the ASU chapter for its activities, outreach and impact over the past year. This was the first time the organization recognized the chapter at a national level. BMES is a professional society for biomedical engineering students that aims to foster interest while also providing academic and career opportunities.

ASU Baja SAE: Off-roading to the future
Arizona State University’s Baja SAE team achieved their second-best overall performance with a ninth-place finish out of 98 teams at the Baja SAE Oregon competition in Portland, Oregon. Baja SAE Oregon simulates real-world engineering design projects and their challenges. Baja SAE is one of SAE International’s Collegiate Design Series competitions designed to prepare undergraduate and graduate engineering students in a variety of disciplines for future employment in mobility-related industries and help expose them to recruiters from leading companies.

Society of Women Engineers inspiring the next generation of female engineers
Over 100 Girl Scouts from metro Phoenix participated in the Girl Scouts for Engineering Awareness and Retention Day which is an outreach initiative hosted by ASU’s Society of Women Engineers (SWE). The event offers a glimpse of science and engineering through fun activities and demonstrations, such as building circuits and assembling machines. Participants, including Girl Scouts and students from local schools, have the chance to explore new interests and see the impact of science and engineering on everyday life.

AZLoop team transports to the future in international SpaceX Hyperloop competition
The AZLoop team — led by Fulton Schools students — finished among the top eight teams at the international SpaceX Hyperloop competition, which challenged students to prototype technology for a futuristic high-speed terrestrial transportation system. The competition tests hyperloop pods that would levitate on tracks at speeds of up to 700 mph in a tube connecting major metropolitan areas.

There are dozens of Fulton student organizations and teams ranging from honors and professional associations to groups creating underwater robots, concrete canoes and launching rockets. FSOs are excellent opportunities to learn about career possibilities as many of the student groups operate in conjunction with industry professional societies.
Why ASU

Engage in cutting-edge research that informs and shapes the world around us

Build professional networks with world-class faculty and industry partners who can assist with career development

Greater employment opportunities, recognition and credibility

In-depth technical knowledge

More hands-on engineering experiences

Accelerated program options

450 degrees to choose from

Professional development — attend seminars, conferences and special events

Learn alongside students from all 50 states and over 150 countries around the globe

Contact us 480-965-2272
fultonschools@asu.edu
engineering.asu.edu

Schedule a visit!
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For transfer students
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See how your credits transfer to ASU using the Transfer Credit Guide transfer.asu.edu/transfer-credits
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For freshman students
Participate in summer programs, like the SEE@ASU outreach program: outreach.engineering.asu.edu/summer-programs/high-school
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