Director Search
The Polytechnic School
Ira A. Fulton Schools of Engineering
The Polytechnic School

The Ira A. Fulton Schools of Engineering (Fulton Schools or FSE) at Arizona State University seeks an accomplished scholar and strategic leader as director of The Polytechnic School (TPS), one of seven schools in FSE and one of two FSE schools located on the Polytechnic campus. At The Polytechnic School, we are creating a new higher education experience – one that focuses on learning through prototyping and solving real-world challenges through collaboration. The Polytechnic School embodies a future-focused, collaborative and inclusive culture. We intentionally seek a director who will continue to foster a culture where faculty thrive as teachers and scholars, and who will embrace new approaches that bridge emerging technology industries and novel research landscapes.

The Polytechnic School is home to seven disciplinary program areas including aviation, engineering, environmental and resource management, graphic information technology, human systems engineering, information technology and technological entrepreneurship and management. The school includes more than 70 faculty, close to 6,500 students, four fully online degree programs and two PhD programs – Engineering Education Systems and Design and Human Systems Engineering. The academic facilities are among the best that ASU has to offer and were designed specifically to support innovation, learning and discovery. The Polytechnic School is undergoing a process of reimagining the strategic direction of the school with an intentional focus on diversity, equity, inclusion and belonging as we scale our academic and research enterprise.

The director of the school reports to the dean of the Fulton Schools of Engineering and will be the academic and administrative leader of The Polytechnic School. The director is responsible for visioning, strategic planning, operations, finance, academic affairs, external relations and advancement. These activities include working with faculty and staff to recruit and retain diverse students, hiring and developing faculty, supervising support staff, creating opportunities for externally funded research, fundraising and development and building strong interactions with industry, local, state and federal funding agencies and the greater community.

Set in a scenic desert arboretum, ASU's Polytechnic campus draws undergraduate and graduate students from around the world. The 600-acre campus offers students a unique environment where class sizes are small and strong industry connections enable them to engage in unique hands-on learning opportunities. The Polytechnic campus is home to some of the most innovative engineering programs and advanced learning laboratories designed specifically to support learning and discovery.

One of the nation’s top public universities and ranked #1 in innovation by U.S. News & World Report, ASU is undertaking a bold reinvention of higher education as the New American University. ASU has developed numerous new programs and units that defy and bridge disciplinary boundaries to enable the exploration and discovery of new knowledge, while developing practical solutions to serve Arizona and the world at large. ASU has strong and simultaneous commitments to educational access, research and teaching excellence and assumes significant responsibility for the cultural, social and economic vitality of its surrounding communities in the metropolitan Phoenix region and beyond.
Arizona State University and the Ira A. Fulton Schools of Engineering

One of the fastest growing academic research enterprises in the U.S., ASU has created a vibrant environment of discovery, interdisciplinary research and innovation focused on addressing society’s greatest challenges. Its research expenditures have nearly tripled over the last decade, totaling $618 million last year. **ASU is well on its way to expanding the university’s research enterprise to over $800 million in annual activity by 2025.** The Fulton Schools play a pivotal role in this continued expansion.
The state of Arizona enjoys its current position as a leader in job growth and economic prosperity. To ensure this growth and prosperity, the Arizona Board of Regents has developed a plan to serve the state in the face of significant new forces that will transform our economy. The New Economy Initiative: Enhancing Arizona's Competitiveness is based on accelerating the transformation of Arizona’s three universities to adaptive drivers of Arizona’s economic success:

- **Enhance** the universities’ capacity to prepare more graduates for critical New Economy areas that will allow Arizona to compete in the new high speed, digital economy of the fourth industrial revolution (where technologies combine hardware, software and biology, informed by high-speed change from AI, autonomous systems, 3D distributed manufacturing, etc.);
- **Support** the universities to compete more aggressively for major, national research grants that focus on transformative ideas, innovative technology and emerging economy business startups that drive productivity for Arizona;
- **Continue** the Governor’s efforts to expand career and technical training in specialized areas; and
- **Raise** the high school graduation rate and the college-going rate of Arizonans, particularly those least likely to complete high school and attend college.
Science and Technology Center Outcomes

Creation of high-value jobs
Technology startups with AZ founders and innovators
Retention of more than 4,000 skilled engineering grads per year
Partnerships with established AZ technology companies

Workforce training
Hands-on research experience produces thought leaders
Entrepreneurial training paves way from lab to captured value

Attraction and retention of leading corporations
People, facilities, intellectual leadership
Partnerships and acquisition opportunities for established companies

Return on Investment for Arizona in the New Economy

<table>
<thead>
<tr>
<th>FSE Current</th>
<th>Goal</th>
<th>Arizona Benefit</th>
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<tbody>
<tr>
<td><strong>Students</strong></td>
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<tr>
<td>16,800 In-person</td>
<td>25,000 In-person</td>
<td><strong>$14B</strong> over 20-year increased income impact</td>
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<tr>
<td>7,100 Online</td>
<td>15,000 Online</td>
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<tr>
<td>4,200 Graduates</td>
<td>6,000 Graduates</td>
<td><strong>&gt;15x</strong> return on public investment</td>
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<td>6,000 First-generation students</td>
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<td>5,300 Female students</td>
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<td><strong>5x</strong> multiplier on job growth</td>
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<td>4,800 Hispanic students</td>
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<tr>
<td><strong>$85,000</strong> Average starting salary</td>
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<td><strong>New industry attraction and formation</strong></td>
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<tr>
<td><strong>Faculty</strong></td>
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<tr>
<td>350 Faculty</td>
<td>100 New faculty</td>
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<tr>
<td>25 Young investigator awards</td>
<td></td>
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<tr>
<td>804 Invention disclosures</td>
<td></td>
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<tr>
<td>35 Startups</td>
<td>#5 Worldwide in patents (2x output)</td>
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<tr>
<td>#26 Worldwide in patents</td>
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<td><strong>Research</strong></td>
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<td>$115M Research output</td>
<td>$215M Research output</td>
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<tr>
<td>2 Engineering research centers</td>
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<tr>
<td>$44M DARPA awards</td>
<td>250+ New industrial partnerships</td>
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<tr>
<td>8 Industry/University research collaborative centers</td>
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ASU New Economy Initiative

ASU’s New Economy Initiative represents a bold effort to ensure that Arizona is prepared for the fourth industrial revolution - which will fundamentally change the way we live, work and relate to one another - and the accompanying future of high employment, strong economic growth and resilience to economic shocks. The initiative is comprised of three primary components:

**Grow the Fulton Schools of Engineering**

Invest in the Fulton Schools of Engineering to:

- Grow FSE’s world class faculty to accelerate research activity to the levels of Stanford, MIT and Georgia Tech.
- Broaden student access and increase the number of graduates in engineering, computer science and technology.
- Complete the launch of a global school alliance for engineering design.
- Emerge as a top 15 U.S. engineering college.
- Make the Phoenix metro one of the largest producers of technology, talent and innovation.

**Science and Technology Centers**

Invest to establish five Science and Technology Centers (STCs) that will foster the growth of the New Economy industries in energy, materials and devices; human performance; extreme environments; advanced manufacturing and future communications technologies. These STCs will produce significant return on public investment — driving job creation, hundreds of new industrial partnerships and startups, and advancing STEM education and workforce training. Together with ASU faculty, the STCs will empower engineering linkages around the world and propel ASU forward as a top 5 university patent provider and a top 10 university tech transfer center.

**Development and Expansion of Education Programs**

Invest in faculty, instructional space, experiential learning programs, and student support services. This investment will shorten the time to earn a degree and increase education options for current students. It will also be used to accelerate the development and deployment of new ways of learning across New Economy fields as well as new hybrid learning and training models for workforce readiness. In addition, this investment will be used to develop content packaged as stackable certificates, micro-degrees, badges and other credentials that provide a flexible and cost-effective way to keep skills up to date in areas that are experiencing unprecedented change. New adaptive learning platforms, AI-infused advising platforms and portals will be included and faculty numbers increased to serve an expanded student and lifelong learning population.
The Ira A. Fulton Schools of Engineering

is the largest and one of the most comprehensive engineering schools in the nation and is excelling in its mission to educate engineers and inspire innovation. In fact, one out of every five students at ASU is a Fulton Schools engineer or technologist. FSE’s strategic goals center on advancing research and innovation at scale, revolutionizing engineering education, and expanding global outreach and partner engagement.

FSE’s differentiating hallmark is the “Fulton Difference” that is grounded in the following principles:

- A focus on student success in the classroom and beyond.
- Excellence in research from discovery to application and in engineering education.
- An acceleration of use-inspired research and entrepreneurial engagement.
- Engagement with stakeholders in industry and the community.
- Drive to make global impacts.
233 patents
54 startups
in the last three years

355 tenured and tenure-track faculty

Lead institution on two National Science Foundation Engineering Research Centers

Lead institution on the Department of Homeland Security Center of Excellence

32 NSF CAREER awards over the past three years

$126M research expenditures FY 2020

#3 Issued U.S. Patents
Ahead of Penn and MIT

#5 Startups
Ahead of Northwestern and Purdue

#6 IP Disclosures
Ahead of Georgia Tech and Cornell

#7 Licenses and Options
Ahead of Princeton and MIT

Comparative performance per $10 million in research expenditures
Diversity and Inclusion

Arizona State University is deeply committed to positioning itself as one of the great new universities by seeking to build excellence, enhance access and have a positive impact on its community, state, nation and the world. To do that requires ASU faculty and staff to reflect the intellectual, ethnic and cultural diversity of our nation and the world at large so that students learn from the broadest perspectives, and we engage in the advancement of knowledge with the most inclusive understanding possible of the issues we are addressing through our scholarly activities. Diversity and inclusion are integral to ASU’s commitment to excellence in research, engagement and education.

Candidates who have demonstrated experience in fostering an inclusive environment and incorporating diverse perspectives in research and the classroom are strongly encouraged to apply.
Arizona State University

has developed a new model for the American research university, creating an institution committed to excellence, access and impact — the New American University: A comprehensive public research university, measured not by whom it excludes, but by whom it includes 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.

Eight design aspirations guide the ongoing evolution of ASU. These institutional objectives are integrated in innovative ways throughout the university to achieve excellence, access and impact.

➠ Leverage Our Place
➠ Enable Student Success
➠ Transform Society
➠ Fuse Intellectual Disciplines

➠ Value Entrepreneurship
➠ Be Socially Embedded
➠ Conduct Use-Inspired Research
➠ Engage Globally

For the sixth year in a row, Arizona State University was named the most innovative university in the nation, recognizing the university’s culture of groundbreaking research and partnerships, as well as its commitment to helping students thrive in college and beyond.

The ASU faculty is at the forefront nationally in advancing research and discovery. The university’s more than 3,400 faculty members inspire new ways of thinking, innovating and solving problems socially, culturally and economically in our region and in the international community. ASU has doubled its research funding and been recognized as one of the fastest-growing research universities in the nation over the past 10 years. ASU reported more than $670 million last year in research expenditures in 2020, up from $660 million the prior year.

➠ 5 MacArthur fellows
➠ 5 Nobel laureates
➠ 7 Pulitzer Prize winners
➠ 9 National Academy of Engineering members
➠ 36 Guggenheim fellows
➠ 143 National Endowment for the Humanities fellows

➠ 251 Fulbright American Scholars
➠ 25 National Academy of Sciences members
➠ 3 National Academy of Medicine members
➠ 7 National Academy of Education members
➠ 8 National Academy of Public Administration members
Greater Phoenix

Greater Phoenix is known for year-round sun, desert beauty, sophisticated urbanscapes, southwest culture, and so much more.

Climate
Enjoy 300 days of sunshine a year and an average temperature of 76 degrees.

Arts and Culture
Greater Phoenix is a rich arts and culture environment with diverse museums, theater, concert halls and cultural centers, such as the renowned Heard Museum, Phoenix Art Museum, Arizona Science Center, Phoenix Symphony, Arizona Opera, Ballet Arizona and the Arizona Theatre Company.

Outdoors
Phoenix has a number of lakes just a short drive away offering opportunities for boating, sailing, windsurfing, water and jet skiing, fishing and more. The area is home to dozens of parks and preserves — both in and around the city — with hundreds of miles of multi-use trails for hiking and biking. The state is home to three national parks, including the Grand Canyon, and other popular destination spots like Sedona.

Sports
All four of Arizona’s major professional sports teams — Arizona Cardinals (NFL), Phoenix Suns (NBA), Arizona Diamondbacks (MLB) and Arizona Coyotes (NHL) — call the metro Phoenix area home, as do the Phoenix Mercury (WNBA), Arizona Rattlers (IFL) and Phoenix Rising FC (USL). The area has over 170 golf courses.

Cost of Living
Greater Phoenix offers the diverse amenities of a major metropolitan region without the high cost of living. As the fifth largest state in the U.S. and one of the most dynamic and rapidly growing regions in the nation, living and working here is both exciting and affordable.

Low Tax Position
Low personal income taxes and low effective property tax rates offer affordability and opportunities for everyone to thrive.

Business and Industry
Arizona is home to a surging industrial ecosystem, early stage entrepreneurs, and tech-savvy millennial talent who are breaking new ground across a wide range of industry growth sectors. What’s more, Arizona offers a robust portfolio of programs and resources supporting both large and emerging tech companies. The state’s rich startup culture continues to thrive and is a preferred choice for technology companies seeking growth. Leading startups have collectively taken advantage of Arizona’s high-skills talent base. Arizona’s solid reputation and assertive stance on innovation led Fast Company to rank Arizona No. 1 in the country for “entrepreneurial activity.”
AGB Search is pleased to assist ASU with this search.

**Required Qualifications**

- An earned doctorate in a discipline within TPS or a related field
- A record of distinguished scholarly research and professional accomplishments that merits appointment as a full professor with tenure (OR related experiences that demonstrate a capacity to engage and support faculty, foster research excellence and facilitate student success)
- Demonstrated record of an administrative leadership role
- Demonstrated commitment to support and enhance diversity, equity and inclusion

**Desired Qualifications**

- Experience visioning and implementing a strategic plan that fosters academic and research excellence and growth and advocates for the resources required for TPS to achieve its goals
- Collaborative and collegial leadership style that works across disciplines, both within the university and with external partners
- Experience with the management and operation of undergraduate and graduate academic programs, budget planning and management, enrollment and administrative policies
- Experience in industry or a demonstrated ability to envision TPS-industry collaboration and develop partnerships, research collaborations and educational programs
- Ability to function as a spokesperson for TPS and its interests in both internal and external environments
- Demonstrated success in fundraising and advancement activities
- Teaching experience, including with first generation, underrepresented and non-traditional students
- Experience with innovative teaching practices, including online learning
- Supportive of engineering education
- Effective communication style that imbues the faculty, staff and students with a sense of pride and purpose for TPS’ vision and mission
- Strong problem-solving skills and the ability to communicate effectively how and why decisions are made
- An active listener and strong communicator who leads with integrity, honesty and transparency
To apply for this position, candidates are requested to submit the following to: ASUDirectorTPS@agbsearch.com. Application deadline is December 9, 2021. Applications will continue to be accepted on a rolling basis for a reserve pool. Applications in the reserve pool may then be reviewed in the order in which they were received until the position is filled.

- Curriculum Vitae
- Letter describing your interest in and qualifications for the school director position (two pages maximum)
- Vision statement for The Polytechnic School (two pages maximum)
- "Diversity Statement (two pages maximum)
- Contact information for three references (to be contacted with candidate’s permission at a later date)

*The ASU Charter states, "ASU is a comprehensive public research university, measured not by whom it excludes, but by whom it includes 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." The diversity statement provides applicants an opportunity to demonstrate their past and current activities in promoting diversity, equity and inclusion and how future activities will align with upholding the ASU Charter.

Nominations and expressions of interest are encouraged. Please direct them to the AGB search consultants listed below.

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A background check is required for employment. Arizona State University is a VEVRAA Federal Contractor and an Equal Opportunity/Affirmative Action Employer. All qualified applicants will be considered without regard to race, color, sex, religion, national origin, age, disability, veteran status, sexual orientation, gender identity or any other basis protected by law. (See https://www.asu.edu/aad/manuals/acd/acd401.html and https://www.asu.edu/titleIX.)

In compliance with federal law, ASU prepares an annual report on campus security and fire safety programs and resources. ASU’s Annual Security and Fire Safety Report is available online at https://www.asu.edu/police/PDFs/ASU-Clery-Report.pdf. You may request a hard copy of the report by contacting the ASU Police Department at 480-965-3456.