



People

- ~ 92,000 students
- ~ 16,000 graduate students

Programs

- > 150 undergraduate majors
- > 75 doctoral programs
- \$2+ billion total revenue
- **\$350M** state support (<20%)

Research

\$350M total awards (research, gifts)
Looking to grow to \$700M by 2020





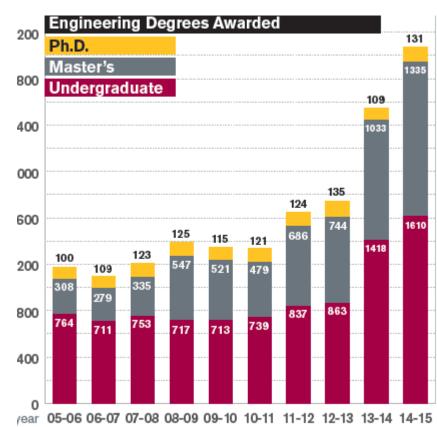
19,076 Ira A. Fulton Schools of Engineering

fall 2015 enrollment

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



ENGINEERING RESEARCH CENTERS







We are leading critical national initiatives

OESST 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

Five NSF I/UCRCs (Industry/University Cooperative Research Programs): PSERC, Connection One, SenSIP, WET, and 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

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Scholarships: build brand awareness with students

Capstones and eProjects:

Teams of students working on industry challenges

Co-ops: students get credit for internship at your company; eases academic to work transition; offer workforce development, economic resources

Research consortia: graduate students and postdocs working on industry challenges in robust multi-university, multi-company environments; training of the country's next generation technology and thought leaders



laboratory access: many laboratories are made available for use by the public at competitive rates

research center membership

sponsored research

IP licensing

sharedresouces.asu.edu



20+ years experience professional development programs

2,000+ graduate students
enrolled annually into 150
online courses across 13
degree programs
500+ professionals trained

annually through online and via campus-based and custom non-credit programs

Flexible delivery: online, accelerated and blended formats



Corporate brand
awareness for
improved recruiting
and student access

Can be as small as a sponsored lunch or as large as sponsoring a career night

Perfect Storm





Member engagement

Sustainability and CdTe projects new efficiency record



Four year commitment

Co-author papers

Donated 1000 modules



Dr. Vasileska QESST Faculty



Dwarak Rav. QESST Scholar

Solar Energy Engineering & Commercialization

Academic Advisory Board member

20+ alumni from the program

Key Components

Research Joint Proposals

Industry

Engagement

Partner Universities Faculty

Workshops Innovation

Industry engagement pathways

evel of engagement, rights **IP licensing Exclusivity or assignment Sponsored Research Exclusivity Center membership** Non exclusive IP rights **Recharge Centers** No IP implications Investment

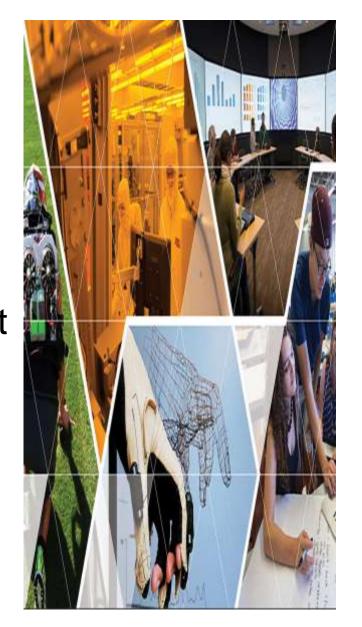
Industry engagement pathways

IP licensing Azte.com **Sponsored Research** Asuengineeringonline.com Center membership Centers.asu.edu **Recharge Centers** Sharedresources.asu.edu Investment

evel of engagement, rights

IAB meetings

Feedback research student presentations (technical and style) Thrust / testbed alignment Open floor for students career questions **SWOT** analysis Poster sessions Tours



Project reviews

Individual projects are reviewed by one company per project typically once per month



Research Agenda

Rank and provide feedback annually on all proposed projects (faculty and member)



Mentor program

One student – one IAB mentor monthly meetings



Semi monthly webinars

Wide variety of center/industry related topics industry, student, faculty topics new breakthroughs
SLC updates



Social Media

Best practices workshops



Where are they now



Eva Pettinato

Aerospace Engineer at Orbital ATK Phoenix, Arizona Area | Avestion & Aerospace

Endorse

Juan Man

University of Arizona

Research Scientist at Luminit

Tucson, Anzona Area Research

Orbital ATK, Self-Employeet

Arizona State University, Arizona Science Cente

Element Arizona State University - Ira A: Fution Schools: Endorse: *

Send a message Akhil Mehrotra

Process Engineer at Applied M

Surnweie, California | Semiconducti

Province - University of Hauston

Edwarfer University of Houston



IIM Reblitz

Application Engineer at Applied Materials lings Atoms Sencentiates

Applied Materials, Their Bilds Engineering

From: Argens State University. Applied States att. Direct Aligna. Harman Ray Downson



Nicole Kotulak

Guy Pickett

Process Engineer at Alta Devices

Marine Corps

San Francisco Bay Area. Higher Education

Arizona State University

Chloe Fabien

Arizona State University, Applied Materials, United States

Nanomaterials and Vacuur

Georgia institute of Tex

Endorse



Send a message Junli Li

Research Assistant

Tempe: Anzona | Semiconductors

Emmatter Arizona State University

Carrie Culp

Previous

Education

Engineer II Expansion Planning at MISO

Arizona State University

Priyaranga Koswatta

Anzona State University

Purdue University

Arizona State University, QESST, Midwest ISO

Applied Materials, Sri Lunka Institute of Information Technolo

Greater New Orleans Area Utilities

DER Consultant at ICF International

Washington D.C. Metro Armii | Oli & Energy

ICF International, Mid-Atlantic Industrial Assessment Center Environmental Defence Fund, Center for Energy and Environmental Policy, University of Delaware, Foundation for

Renewable Energy and Environment

Discolore University of Detaumer

Matthew Erdman

Send a message

Laboratories

Graduate Technical Intern at Sandia National

Sandia National Laboratories, University of New Mexic Anzona State University, 310 Salar LLC

277

340

Endorse

Rio Rancho, New Mexico | Semiconductors

Education The University of New Mexico

Shi Liu

Process TD engineer

and ITESM

Education

Hillshore Oregon: Electrical/Electronic Manufacturing

Sergio Castellanos

Energy Fellow at Berkeley Energy & Climate

San Francisco Bay Arisa Renewables & Environment

Architects & Engineers, Inc.

Massachusetts Institute of Technology

Serkeley Energy & Climate Institute - ITESNI

Massachasets Institute of Technology (MIT), Se

Energia (SENER) - Mexican Secretariat of Energia

tetal Corporation Alizona State University



Send a mes

Laboratory

PHYSION

Washington, D. Education Un

NRC Postdoctoral Associate at Naval Research

Vivek Sharma

PTD Thin Film Module Engineer at Intel Corpor Hillston, Oregon | Semicontuctors

Solar Power Lab Virginia State University, TUN R Photosobic Testing Let (PTL) Nam. Inc. Discrete Account State University

Stephanie Scott

Mechanical Design Engineer at Apple

San Francisco Bay Area | Mechanical or Industrial Engineering

MIT, PARC, CARES Project (Community Assessment Renewable Energy & Sustainability)

Education MIT

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Prateek Garg

Electrical Engineer specializing in Solid State Devices Hillsboro, Oregon: Electrical/Electronic Manufacturing

Arigona State University, Qualcomm, Jawaharlai Nehru Cer

for Advanced Scientific Research

Elements: Argona State University

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Ben Wender STAR Fellow at US Env

Tempe, Arizona Higher Ed



Hal Emmer

Senior Process Engineer at Maxim Integrated Greater Los Angeles Area | Electrical/Electronic Manufacturing

California Institute of Technology



Shelby Vorndran

Intern at Edmund Optics

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Tocson, Anzonii Amii Renewables & Environment

Photon Engineering, LLC. The University of Arizona, Gollege of Optical Sciences Edmund Optice, University of California, Los Angeles, DePauw

University Education University of Angona



Where are they now in industry

Solar

Alta Devices

First Solar

Gehrlicher Solar

Global Solar Energy

OCI Solar Power

DEPCOM Power

Modern Electron

SunPower

Sunpreme

Solexel

1366 Technology

SolarWorld

Sinton Instruments

Trina Solar

Solar City

Optics

Luminit

Photon Engineering

Edmond Optics

Laser Components

Agril

Materials

Applied Materials

Air Liquide

Heraeus

DuPont

Governmental agency

Sandia

Naval Research Labs

Utility

MISO Energy

SRP

Other

L3 Communications

Omnivision

Orbital ATK

Apple

Consulting

Synapse

ICF International

Semiconductor

Intel

ON Semiconductor

Maxim Integrated

Poster sessions

Soft skills development







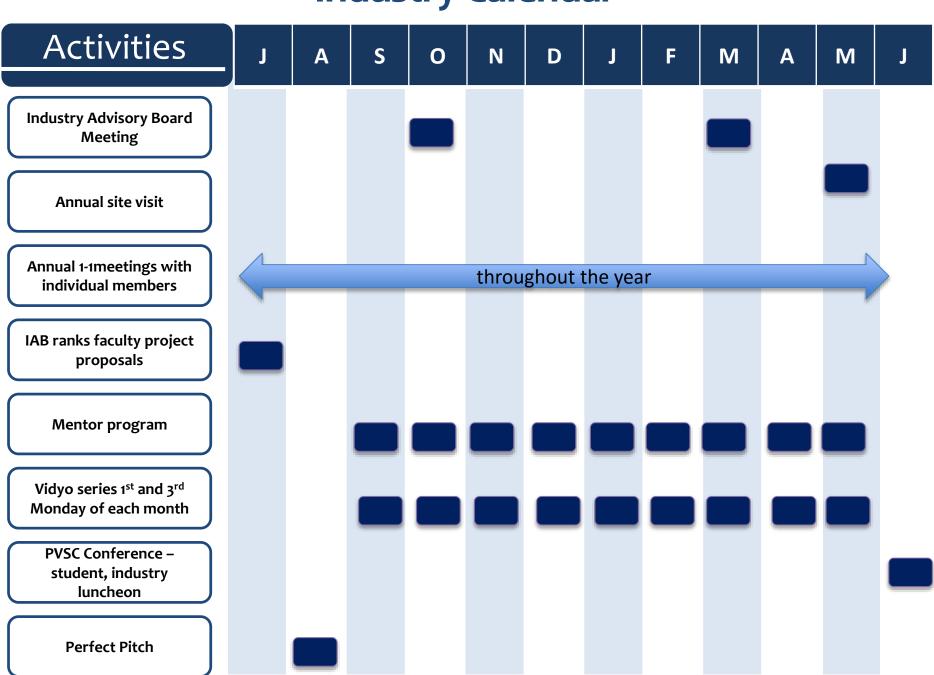
NSF and DoE Support

Site visit
Sustainability plan
Associated projects
Member referrals



National Science Foundation Director Dr. France Córdova

Industry Calendar



National Perfect Pitch Winner



Perfect Pitch Winner to Rock star



Radio interview



Letter from the mayor



Headline news



Buenos Dias Canarias

THE SALE IN 1985 SAL DORSOUR FOR MEININGS I'M FREMIST Distribución Tenedis Distribución S.L. Firs Redacción: 922-24-10.39

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Medalla de Oro de la Cruz Roia • Medalla de Oro de Anco.

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Diariode Avisos.com

DECANO DE LA PRENSA DE CANARIAS



PABLO

Este orotavense de 28 años ganó un importante concurso científico en Estados Unidos con una investigación sobre energía solar que permitirá reducir los gastos de producción de los paneles en el 30%.



nes y la participación de más de 40 bailarines.

horas, en el campo de fútbol municipal de Garachico.



HASSAM SHEIKH

El Gobierno de Somalia, en el colmo de la intransigencia, ha prohibido la Navidad en el pais por creer que "esta festividad es contraria a la cultura islámica y podría dañar la fe de la comunidad musulmana".

PV TO

Questions?

John.J.Mitchell@asu.edu