AS DEAN OF ENGINEERING, I am pleased to present the 2017 College of Engineering Fact Book. The data found in the following pages presents our progress towards fulfilling the objectives of our strategic plan. The information is organized according to the objectives, and in each section of the book, you will read stories of success specific to the objective being addressed. This book shows our proud commitment to fulfilling our role as part of a land grant university. In its pages you can see where we have been, what progress we have made, and how we are working to prepare our students, faculty, staff and alumni for tomorrow.

John R. English
Dean, College of Engineering
Professor of Industrial Engineering
Irma F. and Raymond F. Giffels Endowed Chair in Engineering
### Fall 2017 Total Enrollment

<table>
<thead>
<tr>
<th>Level</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Undergraduate</td>
<td>23,044</td>
</tr>
<tr>
<td>Graduate</td>
<td>4,161</td>
</tr>
<tr>
<td>Law</td>
<td>353</td>
</tr>
<tr>
<td><strong>Total Enrollment</strong></td>
<td><strong>27,558</strong></td>
</tr>
</tbody>
</table>

### University of Arkansas Rankings*

* Source: U.S. News and World Report

<table>
<thead>
<tr>
<th>Year</th>
<th>National University Rank</th>
<th>Public University Rank</th>
</tr>
</thead>
<tbody>
<tr>
<td>2014</td>
<td>128</td>
<td>69</td>
</tr>
<tr>
<td>2015</td>
<td>135</td>
<td>62</td>
</tr>
<tr>
<td>2016</td>
<td>129</td>
<td>64</td>
</tr>
<tr>
<td>2017</td>
<td>135</td>
<td>63</td>
</tr>
<tr>
<td>2018</td>
<td>133</td>
<td></td>
</tr>
</tbody>
</table>

### University of Arkansas Fall 2017 Enrollment (Degree Seeking Only)

<table>
<thead>
<tr>
<th>College</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>College of Engineering</td>
<td>4,316</td>
</tr>
<tr>
<td>J. William Fulbright College of Arts and Sciences</td>
<td>5,121</td>
</tr>
<tr>
<td>College of Education and Health Professions</td>
<td>7,880</td>
</tr>
<tr>
<td>Fay Jones School of Architecture</td>
<td>501</td>
</tr>
<tr>
<td>Sam M. Walton College of Business</td>
<td>2,177</td>
</tr>
<tr>
<td>Law</td>
<td>352</td>
</tr>
<tr>
<td>Graduate School (Interdisciplinary Students)</td>
<td>266</td>
</tr>
<tr>
<td><strong>Total Students</strong></td>
<td>6,354</td>
</tr>
</tbody>
</table>

Since 2007, undergraduate enrollment has more than doubled.

We have 802 new freshmen for 2017.

Our 2017 freshman class is 24 percent female.

<table>
<thead>
<tr>
<th>Degree seeking only</th>
<th>Includes engineering students enrolled in interdisciplinary programs and distance education</th>
</tr>
</thead>
<tbody>
<tr>
<td>Undergraduate**</td>
<td>3,393</td>
</tr>
<tr>
<td>Graduate**</td>
<td>958</td>
</tr>
<tr>
<td>College of Engineering Total Enrollment</td>
<td>4,351</td>
</tr>
</tbody>
</table>

Total undergraduate enrollment is up 2.5 percent over 2016.

Fall 2017 Undergraduate Enrollment by Department*

<table>
<thead>
<tr>
<th>Department</th>
<th>Total Students</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biological and Agricultural Engineering</td>
<td>102</td>
</tr>
<tr>
<td>Biomedical Engineering</td>
<td>226</td>
</tr>
<tr>
<td>Chemical Engineering</td>
<td>321</td>
</tr>
<tr>
<td>Civil Engineering</td>
<td>305</td>
</tr>
<tr>
<td>Computer Science and Computer Engineering</td>
<td>491</td>
</tr>
<tr>
<td>Electrical Engineering</td>
<td>230</td>
</tr>
<tr>
<td>Industrial Engineering</td>
<td>240</td>
</tr>
<tr>
<td>Mechanical Engineering</td>
<td>573</td>
</tr>
<tr>
<td>Undeclared</td>
<td>905</td>
</tr>
</tbody>
</table>

* Students in the Freshman Engineering Program are not included.
For complete financial information, see Appendix page 36.

2017 Revenue (excluding gifts)

Total Revenue: $52,952,247

2017 Expenditures (excluding gifts)

Total Expenditures: $55,225,019

---

State Appropriations & Tuition $24,690,402
Distance Learning Revenues, Ft Smith, Service Centers, Conferences $13,362,663
Research Incentive Funds $913,566
Biological Engineering Teaching and Agricultural Experiment Station* $1,898,336
Sponsored Research ** $119,371,463
Sponsored Activities and Scholarships $900,568
Student Equipment Fee Revenues (TITLE II) net $2,080,448

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Salary and Benefits $171,296,357
Operating Expenditures $902,571
Dept Restricted Fees/Misc $754,913
Student Equipment Fees $2,137,706
Scholarships $354,644
Research*** $290,770,215

---

* Cooperative Extension Service not included
** As reported to AEE and USMWR
*** Reported and compiled by the U of A Research Accounting Office and submitted to the NSF
**College of Engineering**

**Strategic Plan**

**Vision**

Pursue excellence in research, scholarship and education, ensuring personal and professional growth for future generations of engineering leaders who will stimulate prosperity for Arkansas, the nation and the world.

**Strategic Goals**

- Recruit and graduate diverse, high-quality students
- Increase number and diversity of faculty and staff
- Support, recognize and reward faculty and staff excellence
- Increase research proposals and funding
- Build research and development culture
- Cultivate relationships with alumni and corporate partners
- Plan for infrastructure growth

**Balanced Growth Metrics**

- 3,500 undergraduate students
- 1,000 master’s students
- 350 doctoral students
- 135 tenured and tenure-track faculty members
- 65 clinical and research faculty members
- 180 staff members
- $300,000 in research expenditures per faculty member

**Objectives**

<table>
<thead>
<tr>
<th>Increase student quality and diversity</th>
<th>Provide student centered education</th>
<th>Recruit and retain high quality faculty and staff</th>
<th>Increase research productivity</th>
<th>Increase economic development</th>
<th>Increase alumni and corporate partnerships</th>
<th>Provide high quality infrastructure</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACT and GRE quantitative scores</td>
<td>Experiential learning participation</td>
<td>Faculty retention</td>
<td>Doctoral and master’s degrees granted</td>
<td>Invention disclosures</td>
<td>Philanthropic giving</td>
<td>Academic space</td>
</tr>
<tr>
<td>Career placement rate</td>
<td>Freshman retention rate</td>
<td>National awards</td>
<td>New research grants received</td>
<td>Industry research expenditures</td>
<td>Endowed faculty positions</td>
<td>Research space</td>
</tr>
<tr>
<td>Graduate student acceptance rate</td>
<td>Six year undergraduate graduation rate</td>
<td>Professional society leaders and fellows</td>
<td>Peer reviewed publications</td>
<td>Patents awarded</td>
<td>Endowed scholarships and fellowships</td>
<td>Renovated space</td>
</tr>
<tr>
<td>Honors student completion rate</td>
<td>Student-faculty ratios</td>
<td>National Academy of Engineering membership</td>
<td>Research proposals submitted</td>
<td>Startup companies</td>
<td>Percentage of alumni who give</td>
<td>Renovation investment</td>
</tr>
<tr>
<td>Student diversity</td>
<td>Student semester credit hours per FTE</td>
<td>Undergraduate degrees awarded</td>
<td>Research expenditures (total and per faculty)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Preparing You for Your Tomorrow**

Danielle Neighbour, BSCE 2016
2016 College of Engineering Outstanding Senior
Danielle Neighbour wants to spend her career alleviating the global water crisis, and her experience at the College of Engineering has given her a great start. Her first trip abroad was an internship with Reach Beyond International in Ecuador. It was on this trip that she learned what it means to help communities struggling with water issues. Neighbour built on her experience with water quality issues on a service leadership study abroad trip to Vietnam. Neighbour has also studied abroad at the University of Barcelona in Spain, where she took classes in Spanish, participated in a language exchange partnership program, and made new friends from all over the world. At an internship at Burns and McDonnell in Kansas City, she also gained experience in consulting engineering.

Neighbour’s global adventure hasn’t ended since she graduated in December 2016. As a senior, she received both the Truman Scholarship and the Schwarzman Scholarship. Since graduating, she spent the spring semester getting more hands-on experience as a strategic initiatives intern with the water technology company Xylem Inc. in New York City.
Humeyra Ulusoy-Erol
Doctoral Student, Chemical Engineering

Humeyra Ulusoy-Erol is conducting research on water quality and biofuels, and she is passionate about women’s rights around the world. In her home country, Turkey, Ulusoy-Erol was the president of an organization devoted to empowering women as citizens. When she came to the U.S. to study, she continued to advocate for women’s rights. Her involvement with this issue has led Ulusoy-Erol all the way to the United Nations, where she and some friends organized a panel called “Empowering Refugee Women as Entrepreneurs in American Economy” for the 61st session of the UN Commission on the Status of Women. Ulusoy-Erol has also been selected to receive an AAUW International Doctoral Fellowship from the American Association of University Women. Founded in 1881, AAUW is one of the world’s largest sources of funding for graduate women.

Balanced Growth

U.S. News & World Report Undergraduate Ranking

<table>
<thead>
<tr>
<th>Year</th>
<th>Peer Assessment Rank</th>
<th>Peer Assessment Rank (Public Institutions)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2014</td>
<td>115</td>
<td>76</td>
</tr>
<tr>
<td>2015</td>
<td>100</td>
<td>64</td>
</tr>
<tr>
<td>2016</td>
<td>98</td>
<td>62</td>
</tr>
<tr>
<td>2017</td>
<td>105</td>
<td>64</td>
</tr>
<tr>
<td>2018</td>
<td>99</td>
<td>60</td>
</tr>
</tbody>
</table>

U.S. News & World Report Graduate Ranking

<table>
<thead>
<tr>
<th>Year</th>
<th>Overall Rank</th>
<th>Overall Public Rank</th>
</tr>
</thead>
<tbody>
<tr>
<td>2014</td>
<td>105</td>
<td>69</td>
</tr>
<tr>
<td>2015</td>
<td>102</td>
<td>66</td>
</tr>
<tr>
<td>2016</td>
<td>107</td>
<td>70</td>
</tr>
<tr>
<td>2017</td>
<td>112</td>
<td>63</td>
</tr>
<tr>
<td>2018</td>
<td>104</td>
<td></td>
</tr>
</tbody>
</table>

U.S. News & World Report Undergraduate Peer Assessment Score

<table>
<thead>
<tr>
<th>Year</th>
<th>Peer Assessment</th>
</tr>
</thead>
<tbody>
<tr>
<td>2014</td>
<td>2.3</td>
</tr>
<tr>
<td>2015</td>
<td>2.4</td>
</tr>
<tr>
<td>2016</td>
<td>2.4</td>
</tr>
<tr>
<td>2017</td>
<td>2.4</td>
</tr>
<tr>
<td>2018</td>
<td>2.5</td>
</tr>
</tbody>
</table>

U.S. News & World Report Graduate Reputation Score

<table>
<thead>
<tr>
<th>Year</th>
<th>Peer Assessment</th>
<th>Corporate Recruiter Assessment</th>
</tr>
</thead>
<tbody>
<tr>
<td>2014</td>
<td>2.3</td>
<td>2.3</td>
</tr>
<tr>
<td>2015</td>
<td>2.7</td>
<td>2.3</td>
</tr>
<tr>
<td>2016</td>
<td>2.6</td>
<td>2.3</td>
</tr>
<tr>
<td>2017</td>
<td>2.7</td>
<td>2.3</td>
</tr>
<tr>
<td>2018</td>
<td>2.8</td>
<td>2.3</td>
</tr>
</tbody>
</table>

Our progress

Our stories

Our future

U.S. News & World Report

How Rankings Are Measured

U.S. News and World Report, a popular source of university rankings, ranks both undergraduate and graduate programs.

For Ph.D. programs, it considers metrics related to the quality of students the college attracts and metrics related to graduates’ achievements.

U.S. News also surveys deans, program directors, senior faculty and professionals who hire engineering graduates to establish peer and corporate recruiter assessment data. For its college undergraduate rankings, U.S. News uses only peer assessment data.

The 2018 rankings are based on a two year average of data from 2015 and 2016.

Graduate Rankings Metrics:

- Quality assessment: Peer assessment 25% Corporate recruiter assessment 15%
- Student Selectivity: Mean GRE quantitative score 6.75% Graduate acceptance rate 3.25%
- Faculty resources: Student-to-faculty ratio - Ph.D. 7.50% Student-to-faculty ratio - M.S. 3.75%
- Percent of faculty in the National Academy of Engineering 7.50%
- Doctoral degrees awarded 6.25%
- Research activity: Total research expenditures 15% Average research expenditures per faculty member 10%

Look for this icon throughout the book. It indicates metrics that directly affect our U.S. News ranking.
Our stories

Our Students’ Home States

Our progress

Increase student quality and diversity

Our future

Preparing for Tomorrow:

- We will continue our outreach to Arkansas K-12 schools with increasingly excellent STEM programming to interest young people in engineering careers and to enhance the number of students pursuing STEM disciplines.
- We are working to create more endowed scholarships to support engineering undergraduates who have financial need.
- We hope to establish more doctoral fellowship endowments to recruit graduate students and provide our faculty with excellent assistants in their research.
- We plan to increase scholarships for juniors and seniors who display exceptional leadership and academic qualities.

Norman Dennis
Senior Associate Dean
University Professor of Civil Engineering

“In today’s technology driven global economy, our students need to know how to combine engineering skills with creativity and innovation to come up with the next big ideas. That’s why the College of Engineering is finding ways to nurture and encourage our students’ drive to explore and invent. In the new Freshman Honors Innovation Experience, students make a plan to develop and commercialize a new product. We plan to build on the success of this program and integrate innovation throughout the engineering curriculum.”
Keuna Porter  
Chemical Engineering Student

“As a child, math and sciences were things that I easily understood. As I got older, I wanted to take my understanding of those subjects and make a difference in the world. That’s how I chose to attend the University of Arkansas and became part of the Engineering Career Awareness Program in the College of Engineering.

ECAP, for me, is my family away from home. I am from a small town, so such a large university atmosphere could have easily become overwhelming. ECAP has helped me find my place here. Through the program I have met my closet friends, and been exposed to early opportunities to be involved in several organizations on campus through exposure, awareness, and networking.”

Increase student quality and diversity

Engineering Graduate Starting Salaries: U of A and National Averages

Number of Engineering Honors College Graduates

Fall 2017 Incoming Student Awards

Recipients of Nationally Competitive Awards and Scholarships

Preparing for Tomorrow:
• Every semester, our STEM Career Fair attracts over 100 employers and over 1,000 students. We also offer networking events and workshops around the event so that students receive many opportunities to work on their resumes, practice their interview skills and connect with potential employers.
• With endowed funds for colloquia, we invite speakers to campus and create programs for visiting scholars and executives in residence at the university. This exposes our students and faculty to the emerging trends in engineering excellence.
Our stories

Orlando Aguirre-Martinez
Computer Science and Computer Engineering Student

“I primarily chose the University of Arkansas because of the Engineering Career Awareness Program. As part of ECAP, I attended a summer bridge program the summer before my freshman year where I got to meet the rest of my cohort. This allowed me to know 20 incoming engineers that I knew were taking some of the same classes. It was helpful to see some familiar faces on the first day.

Over time, I have found ECAP provides a network of people who become like family. I keep up with ECAP alumni, and there are many out there doing some amazing things with their careers!”

Increase student quality and diversity

Gender Diversity

<table>
<thead>
<tr>
<th></th>
<th>Fall 2013</th>
<th>Fall 2014</th>
<th>Fall 2015</th>
<th>Fall 2016</th>
<th>Fall 2017</th>
</tr>
</thead>
<tbody>
<tr>
<td>Female</td>
<td>20</td>
<td>20</td>
<td>23</td>
<td>25</td>
<td>25</td>
</tr>
<tr>
<td>Male</td>
<td>25</td>
<td>25</td>
<td>27</td>
<td>25</td>
<td>25</td>
</tr>
</tbody>
</table>

Ethnic Diversity

<table>
<thead>
<tr>
<th></th>
<th>Fall 2013</th>
<th>Fall 2014</th>
<th>Fall 2015</th>
<th>Fall 2016</th>
<th>Fall 2017</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minority</td>
<td>15</td>
<td>15</td>
<td>17</td>
<td>20</td>
<td>20</td>
</tr>
<tr>
<td>Caucasian</td>
<td>15</td>
<td>15</td>
<td>18</td>
<td>15</td>
<td>15</td>
</tr>
</tbody>
</table>

Engineering Career Awareness Program

Student Demographics

<table>
<thead>
<tr>
<th>Race</th>
<th>Fall 2013</th>
<th>Fall 2014</th>
<th>Fall 2015</th>
<th>Fall 2016</th>
</tr>
</thead>
<tbody>
<tr>
<td>African American</td>
<td>37.1%</td>
<td>37.1%</td>
<td>37.1%</td>
<td>37.1%</td>
</tr>
<tr>
<td>Asian</td>
<td>6.5%</td>
<td>6.5%</td>
<td>6.5%</td>
<td>6.5%</td>
</tr>
<tr>
<td>Caucasian</td>
<td>0%</td>
<td>0%</td>
<td>0%</td>
<td>0%</td>
</tr>
<tr>
<td>Hispanic/Latino</td>
<td>4.8%</td>
<td>4.8%</td>
<td>4.8%</td>
<td>4.8%</td>
</tr>
<tr>
<td>Native Hawaiian / Pacific Islander</td>
<td>0%</td>
<td>0%</td>
<td>0%</td>
<td>0%</td>
</tr>
<tr>
<td>Native American</td>
<td>50.0%</td>
<td>50.0%</td>
<td>50.0%</td>
<td>50.0%</td>
</tr>
</tbody>
</table>

Engineering Career Awareness Program Six Year Graduation Rate

<table>
<thead>
<tr>
<th>Cohort Year</th>
<th>2008</th>
<th>2009</th>
<th>2010</th>
<th>2011</th>
</tr>
</thead>
<tbody>
<tr>
<td>Received any degree from the U of A</td>
<td>71%</td>
<td>79%</td>
<td>90%</td>
<td>85%</td>
</tr>
<tr>
<td>Received an engineering degree</td>
<td>71%</td>
<td>69%</td>
<td>85%</td>
<td>80%</td>
</tr>
</tbody>
</table>

Preparing for Tomorrow:

- Our Engineering Career Awareness Program (ECAP) has led to significant increases in students who are underrepresented in engineering. These include first generation college students, women and minorities.
- In order to maintain and expand on this success, we are pursuing significant financial backing for underrepresented students with financial need, so they have the means to attend the university and earn engineering degrees.

STEM Preparation Program

We are easing students’ transition from community colleges through the STEM Preparation Program. This program provides online science, engineering and math classes for students enrolled at an Arkansas community college. These classes count toward an associate’s degree at the student’s community college and a bachelor’s degree in engineering, science or math at the University of Arkansas.
Samia Ismail  
2016 Freshman of the Year

“I chose to study engineering because it was the most efficient way for me to pursue my budding interests in research and biomedical sciences while also allowing me a clear transition to graduate school. The Freshman Engineering Program not only helped me make the most of my freshman year—it also helped me make the most of being a freshman in the College of Engineering. My mentor was an incredible person who became one of my first friends within the College of Engineering and helped me with everything from getting involved on campus to finding an apartment for my sophomore year! Additionally, my honors research course gave me the incredible opportunity to meet a professor from every department in the College and hear about the current research goals within each one. It was an unforgettable and unique experience.”

Preparing for Tomorrow:

- In order to cement our success in retaining and graduating engineers, we are seeking to endow the Freshman Engineering Program so that it is assured support in perpetuity.
- We plan to continue to connect successful alumni with our students through classroom presentations, mock interviews, industry visits and other activities.
Richard Cassady
Professor of Industrial Engineering and Director of the Freshman Engineering Program; Dean's Award of Excellence for Outstanding Public Service
Richard Cassady has an excellent record of service to the university, to his professional organization and to the local community. He has served on numerous campus committees and task forces, and his most notable achievement in this area is his role as director of the Freshman Engineering Program, which has made a significant impact on student retention in the college.

Christa Hestekin
Associate Professor of Chemical Engineering; Ansel and Virginia Condray Endowed Professorship in Chemical Engineering; Dean's Award of Excellence for Rising Teaching
Christa Hestekin has made the education of both graduate and undergraduate students a priority in her career. She consistently receives a score of 4+ on her evaluations, and she has proven herself to be innovative and adaptable in her teaching. She is also engaged in teaching outside of the classroom, and she has been successful in securing external funding for student-centered activities like the P3 design competition sponsored by the EPA.

Our stories

Recruit/retain high quality faculty and staff

Richard Cassady

Our progress

Faculty Retention

Fall 2013 Fall 2014 Fall 2015 Fall 2016 Fall 2017
98% 98% 99% 97% 100%

National Faculty Awards Received

22 26 21 24 19

Professional Service Leadership (number of external leadership positions held by faculty)

2014 2015 2016
123 223 294

Society Fellows*

2014 2015 2016 2017
62 59 60 63

Membership in the National Academy of Engineering

2013 2014 2015 2016 2017
2 2 2 2 2

Staff-Faculty Ratio

2013 2014 2015 2016 2017
0.89 0.89 0.86 0.87 0.93

U of A and American Society for Engineering Education (ASEE) Average Faculty Salary Comparisons*

Fall 2012 Fall 2013 Fall 2014 Fall 2015 Fall 2016

200,000 150,000 100,000 50,000 0

* ASEE salary survey data for fall 2017 is not available until January. Instructor salaries are not benchmarked in the ASEE salary survey.

Richard Cassady
Professor of Industrial Engineering and Director of the Freshman Engineering Program; Dean’s Award of Excellence for Outstanding Public Service
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Our future

John White
Distinguished Professor of Industrial Engineering; John Imhoff Award for Teaching
Over his 54-year career, John White has taught more than 5,000 engineering students. In addition to teaching, he also contributes to student learning through his textbooks and published papers. Three of his six co-authored books received book-of-the-year awards from the Institute of Industrial and Systems Engineers. Students he has taught or mentored have received awards at design contests, co-authored papers as undergraduates, been selected as U of A Seniors of Significance and received best paper awards at national conferences.

Ranil Wickramasinghe
Professor of Chemical Engineering; Ross E. Martin Endowed Chair in Emerging Technologies; John Imhoff Award for Research
Ranil Wickramasinghe is an internationally recognized leader in membrane science and technology. His signature accomplishment at the U of A was the establishment of our campus as a site of the Membrane Science, Engineering, and Technology Center, or MAST Center. MAST now comprises three campus sites and is one of the longest running Industrial/University Cooperative Research Centers at the National Science Foundation.
Heather Nachtman
Associate Dean for Research
Professor of Industrial Engineering

“Engineers are results-oriented and problem solvers, and our researchers are no exception. Our researchers are creating more efficient solar panels and finding ways to integrate them into the power grid, examining materials on the nanoscale in order to create new technologies and products, and investigating new approaches in infrastructure to make our buildings, roads and water sources safer. Much of this work leads directly to benefits for the state. Our faculty and students are working on Arkansas roads, collaborating with Arkansas farmers and testing Arkansas water supplies. They are also starting new companies that contribute to the economy and intellectual capital of our region. Our faculty and students want to make the world a better place, and they have the talent and innovative spirit to do so.”

Yanbin Li
Distinguished Professor of Biological and Agricultural Engineering; Tyson Endowed Chair in Biosensing Engineering; Dean’s Award for Collaborative Research Faculty

Yanbin Li has a sustained record of active collaborations both within and outside the college, and has received numerous awards and recognitions, from both the university and national organizations. He is currently involved in a collaborative project which focuses on improving food safety in the Chinese poultry industry. This project has brought together researchers from biological and agricultural engineering, industrial engineering, supply chain management and poultry science, along with the Walmart Foundation, three Chinese universities, a Chinese research institute and three Chinese poultry companies.

In the past year, Lauren Greenlee published three peer reviewed papers in prestigious journals, with another one under review. She received a major external award for new investigators, the 3M Non-tenured Faculty Award, and she has given five invited talks. She is a PI or co-PI on seven external grants from federal and private agencies and has significant state and university funding.

Our stories
Our progress
Our future
Our college’s innovations in materials science and engineering lead to improved materials for societal problems. Our research activities include advanced materials for packaging, control analysis, high resolution and device characterization, advanced coatings and surface engineering, photovoltaic materials, thermoelectric materials, nanotribology and bioinspired functional surfaces and materials.

**Biomedical and Healthcare Engineering**

College of Engineering research encompasses both technological and biological investigations in biomedical and healthcare engineering. Many life-enhancing breakthroughs in medicine and healthcare delivery result from research combining engineering and the medical sciences including biomechanics and nanotechnology, biomaterials, cell and tissue engineering, healthcare logistics and medical decision making.

**Transportation and Logistics**

The College of Engineering has been a national leader in transportation and logistics for more than twenty years. Researchers are looking at distribution, transportation, information technology and software solutions, and maritime and multimodal transportation.

**Materials Science and Engineering**

Our college’s innovations in materials science and engineering lead to improved materials for societal problems. Our research activities include advanced materials for packaging, control analysis, high resolution and device characterization, advanced coatings and surface engineering, photovoltaic materials, thermoelectric materials, nanotribology and bioinspired functional surfaces and materials.

**Emerging areas**

- **Aerospace**
  - This U of A is moving to respond to this area, which is the single largest export market from the state of Arkansas.

- **Big Data/ Data Analytics**
  - Technology has increased the amount of data we produce, leading to an increased need to analyze this data.

- **Cybersecurity**
  - Research is looking at increasing digital security and information assurance, especially in the areas of transportation and the power grid.

- **Infrastructure**
  - As a land-grant institution, the U of A has a responsibility to maintain the nation’s water and electric resources, communications and transportation.

- **Advanced Manufacturing**
  - Keeping manufacturing jobs in America and maintaining our competitiveness in this area is key for economic growth.

- **Optoelectronics**
  - This field is emerging from the broader field of electronics. It involves new semiconductor materials, biophotonics and photovoltaics.

- **Sustainability**
  - Faculty across the college are engaged in some form of research involving sustainable practices, design or technologies.

- **Systems Integration**
  - This area encompasses research in automation, robotics and systems and process control, and inspires keen interest in our students.

- **Water**
  - Research in this area encompasses research in automation, robotics and systems and process control, and inspires keen interest in our students.
Our stories

Whether you know it or not, you probably own items covered in polytetrafluoroethylene, or PTFE. This material is non-reactive, repels water, resists corrosion and reduces friction, which makes it useful for coating cookware, but it also has industrial applications as a solid lubricant, reducing friction and wear in machinery. However, as anyone who has owned a non-stick pan knows, PTFE coatings wear off easily. The non-stick property that makes this material such a good solid lubricant also means it can be easily scraped from a metal surface by an errant fork or spatula.

Min Zou, professor of mechanical engineering, and Samuel Beckford, CEO of SurfTec, have been researching ways to improve the performance of PTFE as a solid lubricant. Zou and Beckford, who was her graduate student at the time, discovered that incorporating silica nanoparticles into the PTFE increased its resistance to wear without sacrificing the lubricating qualities of the substance. The two researchers also developed an adhesive that bonds PTFE more securely to a metal surface. Beckford received his PhD in 2014, and he and Zou turned their research into a startup company. SurfTec, LLC focuses on providing a replacement for lead-based journal bearings, which are used in electric motors and generators.

Research Expenditures by Source*

<table>
<thead>
<tr>
<th>Source</th>
<th>FY 2013</th>
<th>FY 2014</th>
<th>FY 2015</th>
<th>FY 2016</th>
<th>FY 2017</th>
</tr>
</thead>
<tbody>
<tr>
<td>Industry</td>
<td>$5.44M</td>
<td>$3.86M</td>
<td>$3.76M</td>
<td>$3.13M</td>
<td>$3.48M</td>
</tr>
<tr>
<td>State</td>
<td>$15.00M</td>
<td>$10.00M</td>
<td>$15.00M</td>
<td>$20.00M</td>
<td>$15.00M</td>
</tr>
<tr>
<td>Federal</td>
<td>$5.00M</td>
<td>$10.00M</td>
<td>$15.00M</td>
<td>$20.00M</td>
<td>$15.00M</td>
</tr>
<tr>
<td>Other</td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
</tr>
</tbody>
</table>

* As reported to ASEE/USNWR
** Other category includes: foreign governments, foundations, other non-governments

Invention Disclosures

<table>
<thead>
<tr>
<th>Year</th>
<th>FY 2013</th>
<th>FY 2014</th>
<th>FY 2015</th>
<th>FY 2016</th>
<th>FY 2017</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>18</td>
<td>11</td>
<td>12</td>
<td>13</td>
<td>16</td>
</tr>
</tbody>
</table>

Preventing for Tomorrow:

- We plan to encourage faculty development in entrepreneurship, by providing opportunities such as commercial concept testing, academics in residence positions in industry, economic development initiatives and community service.

Invention Disclosures

College of Engineering
Startup Companies

Since 1990, 25 companies have been created based on engineering research at the U of A.

<table>
<thead>
<tr>
<th>Year</th>
<th>FY 1990</th>
<th>FY 1999</th>
<th>FY 2003</th>
<th>FY 2004</th>
<th>FY 2005</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>18</td>
<td>12</td>
<td>13</td>
<td>11</td>
<td>16</td>
</tr>
</tbody>
</table>

Patents Awarded

<table>
<thead>
<tr>
<th>Year</th>
<th>FY 2013</th>
<th>FY 2014</th>
<th>FY 2015</th>
<th>FY 2016</th>
<th>FY 2017</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>3</td>
<td>6</td>
<td>5</td>
<td>5</td>
<td>2</td>
</tr>
</tbody>
</table>
Our stories

Melinda Faubel
B.S. E.I.E. 1980
Director of External Affairs, AT&T Arkansas; Chair of the Engineering Dean’s Advisory Council

“The College of Engineering has made a very significant impact on my life, but the impact the college is making on our state is immense. I am truly proud that I graduated from the University of Arkansas College of Engineering. The college is achieving impressive results and is filled with remarkable students. The faculty and staff are exceptional in providing superior education and research in their support of our students. My fellow advisory board members are outstanding leaders who are working throughout the U.S. and across the globe. I’m especially proud of the focus the college puts on recruiting and retaining underrepresented groups including women, minorities, and first generation college students. Now, more than ever, the young people of our state, region, and nation are finding that engineering is a viable direction for their lives. It is exciting to see the new perspectives brought in to our companies and communities because of the opportunities created in our own College of Engineering.”

Our progress

Philanthropic Giving*

Endowed Scholarships and Fellowships

Alumni By State

Endowed Faculty Positions

Percentage of Alumni Who Give

2017 Hall of Fame Award
• Bob H. Crafton, BSCE 1957
• Larry G. Stephens, BSEE 1958

2017 Distinguished Alumni Award
• Pat Bourne, BSEE 1968
• Bob Harrison, BSME 1974
• Pam McGinnis, BSEE 1990
• Lynn Moore, BSCE 1994, MSCSE 1996
• Mike Shook, BSAGE 1982
• Michael Wood, BSCH 1984
• Carl Yakes, BSECE 1958

2017 Early Career Award
• Andy Davis, BSCE 1999, MSCE 2001
• Adam Ekenseair, BSCH 2005
• Matt Francis, BSCE 2003, BS 2004, MSEE 2007, PhD 2009
• Amanda Furr, BSCE 2003
• Toni McCrory, BSBE 2007
• Jonathan Schisler, BSCEMP 2004, MSCMP 2005
• Matt Zwicker, BSME 2003

* For more information, see Gifts and Endowments chart on Appendix page 37.
** Production: new gifts received or pledged during the fiscal year, including payments that will be received in future years.
*** Receipts: gifts received during the fiscal year, including payments on pledges from prior fiscal years.

*For more information, see Gifts and Endowments chart on Appendix page 37.
** Production: new gifts received or pledged during the fiscal year, including payments that will be received in future years.
*** Receipts: gifts received during the fiscal year, including payments on pledges from prior fiscal years.
Preparing for Tomorrow:

- The college plans major renovations to John A. White, Jr. Engineering Hall. This historic building has housed engineering classes and labs since 1927. We plan to upgrade the space and create a classic interior that pays homage to the building’s rich history.
- Construction of the Civil Engineering Research and Education Center will provide research space for structures analyses and allow the Department of Civil Engineering to remain regionally competitive.

### Renovated Space

<table>
<thead>
<tr>
<th>Year</th>
<th>Academic</th>
<th>Research</th>
</tr>
</thead>
<tbody>
<tr>
<td>2015</td>
<td>5,236 ft²</td>
<td>8,200 ft²</td>
</tr>
<tr>
<td>2016</td>
<td>6,420 ft²</td>
<td>14,449 ft²</td>
</tr>
<tr>
<td>2017</td>
<td>10,325 ft²</td>
<td>6,209 ft²</td>
</tr>
</tbody>
</table>

### Renovation Investment

<table>
<thead>
<tr>
<th>Year</th>
<th>Academic</th>
<th>Research</th>
</tr>
</thead>
<tbody>
<tr>
<td>2015</td>
<td>$546,000</td>
<td>$304,000</td>
</tr>
<tr>
<td>2016</td>
<td>$229,500</td>
<td>$430,500</td>
</tr>
<tr>
<td>2017</td>
<td>$553,900</td>
<td>$608,100</td>
</tr>
</tbody>
</table>

### Total Space

<table>
<thead>
<tr>
<th>Year</th>
<th>Academic</th>
<th>Research</th>
</tr>
</thead>
<tbody>
<tr>
<td>2015</td>
<td>77,416 ft²</td>
<td>92,272 ft²</td>
</tr>
<tr>
<td>2016</td>
<td>84,229 ft²</td>
<td>102,067 ft²</td>
</tr>
<tr>
<td>2017</td>
<td>84,229 ft²</td>
<td>102,067 ft²</td>
</tr>
</tbody>
</table>
Revenues (excluding gifts)

<table>
<thead>
<tr>
<th>FY 2013</th>
<th>FY 2014</th>
<th>FY 2015</th>
<th>FY 2016</th>
<th>FY 2017</th>
</tr>
</thead>
<tbody>
<tr>
<td>State Appropriations &amp; Tuition</td>
<td>$20,117,976</td>
<td>$20,787,672</td>
<td>$21,712,044</td>
<td>$22,948,204</td>
</tr>
<tr>
<td>Distance Learning Revenues, Ft Smith, Service Centers, Conferences</td>
<td>$3,335,980</td>
<td>$3,103,014</td>
<td>$3,140,177</td>
<td>$3,325,452</td>
</tr>
<tr>
<td>Research Incentive Funds</td>
<td>$1,635,454</td>
<td>$1,643,657</td>
<td>$942,325</td>
<td>$1,077,827</td>
</tr>
<tr>
<td>Biological Engineering Teaching and Agricultural Experiment Station*</td>
<td>$1,947,726</td>
<td>$1,787,000</td>
<td>$1,851,719</td>
<td>$1,893,397</td>
</tr>
<tr>
<td>Sponsored Research**</td>
<td>$14,930,781</td>
<td>$11,805,030</td>
<td>$15,907,692</td>
<td>$18,372,457</td>
</tr>
<tr>
<td>Sponsored Activities and Scholarships</td>
<td>$1,336,218</td>
<td>$1,518,160</td>
<td>$1,537,123</td>
<td>$1,658,126</td>
</tr>
<tr>
<td>Student Equipment Fee Revenues (TELE-net)</td>
<td>$2,092,715</td>
<td>$2,286,709</td>
<td>$2,302,119</td>
<td>$2,436,534</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>$45,396,844</td>
<td>$42,931,241</td>
<td>$47,393,199</td>
<td>$51,711,996</td>
</tr>
</tbody>
</table>

* Cooperative Extension Service not included. ** As reported to ASEE and USNWR.

Expenditures (excluding gifts)

<table>
<thead>
<tr>
<th>FY 2013</th>
<th>FY 2014</th>
<th>FY 2015</th>
<th>FY 2016</th>
<th>FY 2017</th>
</tr>
</thead>
<tbody>
<tr>
<td>Salary and Benefits</td>
<td>$16,772,659</td>
<td>$17,263,681</td>
<td>$18,744,220</td>
<td>$18,211,503</td>
</tr>
<tr>
<td>Operating Expenditures</td>
<td>$2,751,265</td>
<td>$2,615,636</td>
<td>$3,100,172</td>
<td>$1,493,489</td>
</tr>
<tr>
<td>Dept Restricted Fees/Misc</td>
<td>$2,466,727</td>
<td>$2,773,673</td>
<td>$2,129,293</td>
<td>$1,218,038</td>
</tr>
<tr>
<td>Student Equipment Fees</td>
<td>$1,606,694</td>
<td>$2,122,512</td>
<td>$2,241,329</td>
<td>$2,082,936</td>
</tr>
<tr>
<td>Scholarships</td>
<td>$302,547</td>
<td>$527,343</td>
<td>$758,241</td>
<td>$482,364</td>
</tr>
<tr>
<td>Research*</td>
<td>$23,972,316</td>
<td>$20,729,821</td>
<td>$22,476,266</td>
<td>$27,966,133</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>$47,672,208</td>
<td>$46,312,626</td>
<td>$46,760,722</td>
<td>$51,013,423</td>
</tr>
</tbody>
</table>

* Reported and compiled by the U of A Research Accounting Office and submitted to NSF.

Gifts and Endowments*

<table>
<thead>
<tr>
<th>FY 2013</th>
<th>FY 2014</th>
<th>FY 2015</th>
<th>FY 2016</th>
<th>FY 2017</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contributions - Expendable</td>
<td>$2,709,746</td>
<td>$1,126,807</td>
<td>$871,121</td>
<td>$1,390,103</td>
</tr>
<tr>
<td>Contributions - Endowed &amp; Restricted Gifts</td>
<td>$1,072,257</td>
<td>$3,238,427</td>
<td>$3,620,544</td>
<td>$1,303,211</td>
</tr>
<tr>
<td>Investment Income</td>
<td>$55,225,019</td>
<td>$51,013,423</td>
<td>$46,760,722</td>
<td>$47,672,208</td>
</tr>
<tr>
<td>Expendable</td>
<td>$2,322,307</td>
<td>$2,577,659</td>
<td>$2,617,325</td>
<td>$2,816,073</td>
</tr>
<tr>
<td>Endowed (reinvestment)</td>
<td>$1,042</td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
</tr>
<tr>
<td>Endowed Market Value Adjustment</td>
<td>$4,133,111</td>
<td>$6,979,898</td>
<td>$(298,852)</td>
<td>$(4,280,657)</td>
</tr>
<tr>
<td>Net Transfers and Allocations</td>
<td>$13,743</td>
<td>$(1,224,342)</td>
<td>$0</td>
<td>$0</td>
</tr>
<tr>
<td><strong>Total Revenue</strong></td>
<td>$10,252,206</td>
<td>$14,699,448</td>
<td>$9,610,138</td>
<td>$12,229,041</td>
</tr>
<tr>
<td>Expenditures</td>
<td>$2,689,449</td>
<td>$2,436,534</td>
<td>$2,302,119</td>
<td>$2,436,534</td>
</tr>
<tr>
<td>Scholarships and Student Support</td>
<td>$1,119,101</td>
<td>$1,154,870</td>
<td>$2,137,758</td>
<td>$2,137,758</td>
</tr>
<tr>
<td>Other College Support</td>
<td>$2,574,873</td>
<td>$2,574,873</td>
<td>$2,137,758</td>
<td>$2,137,758</td>
</tr>
<tr>
<td>Capital Outlays</td>
<td>$152,525</td>
<td>$152,525</td>
<td>$152,525</td>
<td>$152,525</td>
</tr>
<tr>
<td>Development costs**</td>
<td>$152,525</td>
<td>$152,525</td>
<td>$152,525</td>
<td>$152,525</td>
</tr>
<tr>
<td><strong>Total Expenditures</strong></td>
<td>$4,196,934</td>
<td>$3,993,030</td>
<td>$3,993,030</td>
<td>$3,993,030</td>
</tr>
<tr>
<td><strong>Net Transfers and Allocations</strong></td>
<td>$6,055,272</td>
<td>$10,705,419</td>
<td>$5,617,108</td>
<td>$(5,182,377)</td>
</tr>
</tbody>
</table>

* Planned and Charitable Remainder Trust Accounts are not reported. ** Development costs budgeted from U of A Foundation funds and includes administrative overhead charges to gift revenues.

Gifts and Endowments Financial Position*

Endowment Funds Held with the University of Arkansas Foundation, University of Arkansas, and Agricultural Development Council

<table>
<thead>
<tr>
<th>FY 2013</th>
<th>FY 2014</th>
<th>FY 2015</th>
<th>FY 2016</th>
<th>FY 2017</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cash and Cash Equivalents - Expendable</td>
<td>$9,411,703</td>
<td>$8,219,552</td>
<td>$11,335,354</td>
<td>$12,807,764</td>
</tr>
<tr>
<td>Pooled Investment Funds - Endowments</td>
<td>$46,329,354</td>
<td>$55,042,921</td>
<td>$52,226,964</td>
<td>$52,164,081</td>
</tr>
<tr>
<td>Scholarship Endowments</td>
<td>$9,643,672</td>
<td>$12,548,260</td>
<td>$14,376,759</td>
<td>$13,770,926</td>
</tr>
<tr>
<td>Fellowship Endowments</td>
<td>$3,305,901</td>
<td>$3,785,314</td>
<td>$3,991,624</td>
<td>$4,292,359</td>
</tr>
<tr>
<td><strong>Total Fund Balances</strong></td>
<td>$68,690,630</td>
<td>$79,396,049</td>
<td>$81,926,701</td>
<td>$83,035,131</td>
</tr>
</tbody>
</table>

* Planned / Charitable Remainder Trust Accounts are not reported. Biological Engineering accounts retroactively reported with Engineering.
Distance Education

The Master of Science in Operations Management program was established in 1974 and since that time it has become the largest graduate degree program offered by the University. The purpose of the program is to create value through efficiency by applying the strategic, tactical and operational activities of operations management. The program offers classes at several graduate resident centers across the region. Students may complete all the requirements for the program at one of these centers, at the Fayetteville campus, or online.

Master of Science in Operations Management

<table>
<thead>
<tr>
<th>Year</th>
<th>Number of Courses Offered</th>
<th>Student Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>2013</td>
<td>28</td>
<td>8,943</td>
</tr>
<tr>
<td>2014</td>
<td>29</td>
<td>8,994</td>
</tr>
<tr>
<td>2015</td>
<td>30</td>
<td>9,537</td>
</tr>
<tr>
<td>2016</td>
<td>31</td>
<td>9,243</td>
</tr>
<tr>
<td>2017</td>
<td>32</td>
<td>8,748</td>
</tr>
</tbody>
</table>

The Master of Science in Engineering program has been offering online degrees since 2009. It is a fully-accredited program taught by graduate faculty from the College of Engineering. This program is designed for students who want to further their education in a variety of engineering topics, and its graduates are well-prepared for a career in engineering and management of engineering systems, processes and organizations.

This program is consistently ranked in the top 30 for best online graduate engineering programs and best online graduate engineering programs for veterans by U.S. News & World Report.

Master of Science in Engineering

<table>
<thead>
<tr>
<th>Year</th>
<th>Number of Courses Offered</th>
<th>Student Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>2013</td>
<td>61</td>
<td>957</td>
</tr>
<tr>
<td>2014</td>
<td>62</td>
<td>1,116</td>
</tr>
<tr>
<td>2015</td>
<td>65</td>
<td>1,182</td>
</tr>
<tr>
<td>2016</td>
<td>67</td>
<td>1,677</td>
</tr>
<tr>
<td>2017</td>
<td>76</td>
<td>1,527</td>
</tr>
</tbody>
</table>

Faculty Elected as Fellows of Professional Societies

**National Academy of Engineering**
- Mike Johnson
- John White

**American Society of Civil Engineers**
- Norman Dennis
- Findlay Edwards
- Ernie Heymsfield
- Mike Johnson
- R. Panneer Selvam

**American Society of Mechanical Engineers**
- Rick Couvillion
- Ajay Malshe
- Steve Tung
- Min Zou

**American Institute for Medical and Biological Engineering**
- Jin-Woo Kim
- Yanbin Li
- D. Keith Roper
- Lalit Verma

**American Society for Engineering Education**
- Norman Dennis
- Kim Needy
- John White

**American Society for Engineering Management**
- Heather Nachtmann
- Kim Needy

**American Society for Testing and Materials**
- Ashok Saxena

**American Institute of Aeronautics and Astronautics**
- Jim Rankin

**American Society of Agricultural and Biological Engineers**
- Lalit Verma
- Yanbin Li
- Otto Loewer

**American Institute of Chemical Engineers**
- Robert Babcock
- Tom Spicer
- Ranil Wickramasinghe

**ASM International**
- Ashok Saxena
- Ajay Malshe

**ASHRAE**
- Darin Nutter

**American Concrete Institute**
- Frances Griffith
- Micah Hale

**American Institute for Medical and Biological Engineering**
- Ajay Malshe
- Steve Tung
- Min Zou

**American Society of Agricultural and Biological Engineers**
- Lalit Verma
- Yanbin Li
- Otto Loewer

**American Institute of Chemical Engineers**
- Robert Babcock
- Tom Spicer
- Ranil Wickramasinghe

**City and Guilds of London Institute (UK)**
- Simon Ang

**Electrochemical Society**
- Simon Ang

**Indian Society of Agricultural Engineers**
- Lalit Verma

**Institute for Operations Research and Management Sciences**
- Greg Parnell
- John White

**Institute of Biological Engineering**
- Lalit Verma

**Institute of Electrical and Electronics Engineers**
- Simon Ang
- Samir El-Ghazaly
- Alan Mantooth

**Society of American Military Engineers**
- Mike Johnson

**Society of Automotive Engineers**
- Mike Johnson

**Society of Reliability Engineers**
- Greg Parnell

**Society of Tribologists and Lubrication Engineers**
- Min Zou
Appendix

College of Engineering Administrative Contacts

DEANS AND ASSOCIATE DEANS

John English
Dean of the College of Engineering
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Heather Nachtmann
Associate Dean for Research
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