

BAEG Vision

To be a leading Biological and Agricultural Engineering Department providing biological engineering expertise of value to the public. Our teaching, research and service activities will significantly contribute to the quality of life, security, economic development, and environmental stewardship for Arkansas and the World.

BAEG Mission

To develop and disseminate biological engineering knowledge through teaching, research, and technology transfer. Areas of expertise in the department include agricultural, food, ecological, nanotechnology, energy, bio-security, bioprocessing and biomedical engineering.

Objective 1

To conduct basic and applied biological engineering research that addresses the needs of Arkansas and the World, consistent with the mission of the Division of Agriculture, and the College of Engineering.

Outcomes per Research-FTE/Year

Faculty Goals

- Two Peer-Reviewed Publications
- Three Technical Presentations/Publications
- \$200K in extramural grants (including indirect costs)
- Awards

Institutional Commitment Sought

- 1 Technical/Support Staff per Faculty Member
- 1200 sq-ft Finished Lab Space per Faculty Member

Objective 2

To produce graduates of BS program in Biological Engineering who:

–Effectively apply engineering to biological systems and phenomena (plants, animals, humans, microbes, and the environment) with demonstrated proficiency in basic engineering skills, technical knowledge, and professional and personal skills,

–Are well prepared for future challenges in biological engineering, life-long learning, and professional and ethical contributions to society through sustained accomplishments.

Outcomes

- 25% of Student Body will be Honors Student
- 90% of students will pass FE
- Enrollment of 100
- Student to Teaching-FTE ratio of 20:1
- 30% of Students will gain Research experience
- 90% Placement of graduates
- 6-year graduation rate from any program of 60%
- Retention of 60% of our sophomores

Objective 3

To produce advanced-level Biological and Biomedical Engineering graduates who:

–Are well prepared for future challenges in biological engineering, including creation of knowledge through research, life-long learning, and professional and ethical contributions to society through sustained accomplishments.

Outcomes

- PhD Student to Faculty ratio of 2:1
- MS Student to Faculty ratio of 1:1
- 1 refereed pub and 1 presentations per MS student
- 2 refereed pub and 2 presentations per PhD student
- An opportunity to gain teaching experience for both MS and PhD students
- Professional society membership

Objective 4

To provide Biological and Agricultural Engineering extension and public service that addresses the needs of Arkansas and the World, consistent with the mission of the Division of Agriculture and the College of Engineering.

Outcomes per Extension FTE

- Technical/Web Pubs
- Joint Pubs (multi discipline or state)
- Grants
- Workshops
- Committees (state, regional, national, Int'l)
- Presentations
- In-service training
- Awards

Objective 5

To maximize performance incentives and encourage the professional growth of the faculty and staff so they may better serve our students and the public.

Outcomes per FTE

- Off-Campus Assignments
- Fellowships
- CEU/PDH's taken or taught
- Courses/Degrees
- Seminars
- Promotions
- Workshops
- Committees, activities, self study
- Certifications
- Professional society involvement, leadership
- Consulting
- Awards