Top reasons to choose biological systems engineering as your major

- **Small department, big impact** — The BSE program is small enough to genuinely care, but big enough to make a positive impact on students.

- **Outstanding and diverse faculty** — Faculty facilitate student discovery and exploration in the classroom, preparing scholars for diverse post-graduate opportunities in agricultural machinery, environmental/ecological and food/bioproduct production and processing careers.

- **Wide array of opportunities** — Engineering principles are applied to biological systems involving plants, soils, microbes, animals, air and water quality, food and energy sources, and human beings.

- **Extensive design experience** — Students engage in the design process from their first through final year of our program gaining skills needed to solve real-world problems. The BSE program provides extensive applied design opportunities in mechatronics, terra-mechanics, off-road machinery, bioprocessing and environmental quality.

- **Excellent employment opportunities** — Ninety-five percent of BSE graduates find immediate employment or begin advanced graduate studies upon graduation.
Student experience

- Students feel at home in the BSE degree program — class sizes are small, students are known by name, and faculty advisers provide individual academic and career guidance for each student.
- Access to tutors, computers and group study areas help students achieve their academic goals.
- Lifelong friendships are forged through hours of studying, designing, drafting, writing and presenting oral team projects.
- Student clubs, design teams and industry connections hone professional skills and develop professional networks.
- Opportunities exist to study abroad and/or participate in internships with industry, government and university research.
Why biological systems engineering at K-State?

BSE degree options

- **Biological focus** — Biological systems engineers with a biological focus work with biological systems in areas such as bioremediation, biomaterials, bio-based energy, bioinstrumentation or processing.

- **Machinery focus** — Many BSE graduates design, test and evaluate machines used in agriculture, construction and related off-highway industries.

- **Environmental focus** — The environmental option focuses on design and management of systems that use or affect natural resources.
About the BSE program

- The BSE program boasts three award-winning student design teams — robotics, ¼-scale tractor and fountain wars — which consistently rank in the top three places at national competitions.
- BSE graduates are hired by companies such as AGCO, ExxonMobil, George Butler and Associates, John Deere, Natural Resources Conservation Service, ONEOK and Westar Energy, while about 25% pursue advanced degrees. Typical starting salary of BSE grads is $60,000+.
- BSE students develop specialization in one of three areas: machinery systems, environmental or biological, each integrating biological systems with engineering principles.
- Housed in the biological and agricultural engineering department at Kansas State University, the BSE program is ABET accredited and the only degree program of its kind in Kansas.
- Students seeking career paths as agricultural engineers in off-road machinery companies, consulting firms or in other food production systems are able to do so through the BSE program.
- The Bachelor of Science in Biological Systems Engineering is accredited by the Engineering Accreditation Commission of ABET, http://www.abet.org.

Career paths of BSEs

- Biomaterials processing
- Food production and processing industry
- Medical research fields
- Petroleum industry
- Agricultural air quality
- Water quality and quantity
- Bioremediation and ecological engineering
- Engineering consulting
- Precision agriculture
- Off-road machinery and equipment
- Mechatronics