Biosystems engineers ensure that the world’s growing population has clean water systems, adequate food production and sustainable energy sources. They apply engineering principles and practices to the fields of biology and environmental science to design systems, processes and machines that interact with humans, plants, animals, microorganisms, food, biological materials and the natural environment. Biosystems engineers devise practical, efficient and sustainable solutions for improving the environment and for producing, storing, transporting, processing and packaging food, biological and agricultural products. The products of their work vary from new machinery to environmental remediation projects to improved processing methods, with the ultimate goals of enhancing people’s lives and safeguarding the environment to ensure a prosperous tomorrow.

FOR MORE INFORMATION, VISIT:
www.engr.uky.edu/explore/biosystems-engineering
The University of Kentucky is the only college in Kentucky that offers biosystems engineering. Biosystems engineering has historical roots in agricultural engineering, which is typically a part of each state’s land grant university. Plus, the biosystems engineering program at UK includes more specialty areas than similar departments across the country. This flexibility in the curriculum allows for each student to customize their technical electives to their future career goals.

CAREER PROSPECTS IN BIOSYSTEMS ENGINEERING
With six career specializations, biosystems engineering students have the opportunity to customize their engineering future. Graduates have the opportunity to establish dynamic careers in industry and government. Students have been hired by many organizations, such as USDA, Alltech, Chiquita, Nestle, Kuerig, Yum! Foods, Duke Energy, UPS, Trane, Cummins, John Deere, Honeywell, Altec, LinkBelt and Big Ass Solutions. Students also choose pre-professional paths that prepare them for medical and veterinary programs.

UNDERGRADUATE RESEARCH IN BIOSYSTEMS ENGINEERING
Students have investigated research questions related to “the farm of the future,” drone use for atmospheric and agricultural purposes, hybrid and electric powertrains, watershed-scale water quality assessment of natural and managed ecosystems and much more. Because we have varied areas of study, students are sure to find a laboratory that combines their research interests and skill level.

CO-OPS
UK provides numerous opportunities to co-op with companies. Students can co-op during the fall, spring or summer semesters. Those who complete three co-op rotations will receive formal recognition on their transcript and a special cord at graduation. Students work with the Co-op Director and their academic advisor to determine the best timing for their co-op experience.

The University of Kentucky’s biosystems engineering program is accredited by the Engineering Accreditation Commission of ABET, www.abet.org.

Revised August 2021. Information subject to change. For the most up-to-date information on the UK College of Engineering, visit www.engr.uky.edu.