ENGINEERING TECHNOLOGY & MANAGEMENT FOR AGRICULTURAL SYSTEMS: ENERGY & THE ENVIRONMENT, BS

for the degree of Bachelor of Science Major in Engineering Technology & Management for Agricultural Systems: Energy & the Environment concentration

department website: https://abe.illinois.edu/undergraduate/
department faculty: https://abe.illinois.edu/directory/faculty (https://abe.illinois.edu/directory/faculty/)

overview of college admissions & requirements: Agricultural, Consumer & Environmental Sciences (http://catalog.illinois.edu/schools/aces/academic-units/#text)
college website: https://aces.illinois.edu/

Students in the Energy and the Environment concentration focus on renewable energy systems, environmental systems, or both. Students will 1) gain an understanding of the science behind renewable energy from sunlight, wind, geothermal, and biomass sources; 2) perform economic analyses of proposed systems; 3) manage energy systems to blend appropriate sources into reliable, cost-effective, and long-lasting systems; and 4) develop, construct, and operate large-scale, grid-connected renewable energy projects. Students will also have the ability to utilize GIS and other technologies to develop and manage practices for controlling the transport of agricultural and other non-point sources of pollution in the environment, and to implement systems for sustaining and improving water quality, maintaining ecosystems, managing stormwater, and developing optimal irrigation use and drainage systems. Graduates of the Energy & the Environment concentration are prepared for careers with private consulting firms, government and environmental agencies, both small and large technology companies, or for entrance into graduate or professional school.