Graduate work in the Department of Biological Systems Engineering (BSE) leads to the master of science and doctor of philosophy degrees. Graduates of the program help fill the need for highly educated engineers in industry, consulting firms, government agencies, and educational institutions.

Students who undertake graduate studies in BSE normally have as their goal a better understanding of the current theories, principles, issues, and problems in biological systems. They desire a better understanding of how knowledge is generated, how it is critically evaluated, and how solutions to problems are generated. Graduate studies improve the ability of students to think critically and creatively, and to synthesize, analyze, and integrate ideas for decision making and problem solving.

The department offers students an opportunity to undertake research and advanced study in different specialization areas such as biological systems, environmental quality and natural resource engineering, waste management, food and bioprocess engineering and food safety, machinery systems, bioresources and biorefining, and agricultural safety and health.

Graduate research assistantships, project assistantships, and fellowships are available on a highly competitive basis.

**DEGREES/MAJORS, DOCTORAL MINORS, GRADUATE/PROFESSIONAL CERTIFICATES**

- Biological Systems Engineering, M.S. ([http://guide.wisc.edu/graduate/biological-systems-engineering/biological-systems-engineering-ms](http://guide.wisc.edu/graduate/biological-systems-engineering/biological-systems-engineering-ms))
- Biological Systems Engineering, Ph.D. ([http://guide.wisc.edu/graduate/biological-systems-engineering/biological-systems-engineering-phd](http://guide.wisc.edu/graduate/biological-systems-engineering/biological-systems-engineering-phd))

**PEOPLE**

**Faculty:** Professors Reinemann (chair), Anex, Bohnhoff, Etzel, Gunasekaran, Hanna, Hartel, Holmes, Kammel, Karthikeyan, Kung, O'Leary, Ralph, Shinners, Straub, A. Thompson, Walsh; Associate Professor Pan; Assistant Professors Digman, Larson, Luck, Runge