

Agricultural and Biosystems Engineering

Department Information

- **Department Chair:**
Leon Schumacher, Ph.D.
- **Graduate Coordinator:**
Igathinathane Cannayen, Ph.D.
- **Department Location:**
Agricultural and Biosystems Engineering Building
- **Department Phone:**
(701) 231-7261
- **Department Web Site:**
www.ndsu.edu/aben/ (<http://www.ndsu.edu/aben/>)
- **Application Deadline:**
International applications are due May 1st for fall and October 1 for spring. Domestic applications must be received at least one month prior to the start of the semester.
- **Credential Offered:**
Ph.D., M.S.
- **English Proficiency Requirements:**
TOEFL ibt 79; IELTS 6.5; Duolingo 105

The Department of Agricultural and Biosystems Engineering (ABEN) offers graduate study leading to the Master of Science (M.S.) and Doctor of Philosophy (Ph.D.) degrees. The program emphasizes solving engineering problems for agricultural production, food and biofuels processing, and environmental resources management. Advanced work may involve specialized training in the following areas: irrigation and drainage engineering; agricultural hydrology; soil and water resources management; livestock waste management; air quality, process engineering for food and biofuels, and other bioproducts; agricultural machine systems; precision agriculture; machine vision and intelligent sensors for biological systems; and post-harvest handling and storage of biomass feedstocks and other biological materials.

Student research and academic programs are tailored to individual student needs and interests. Interdisciplinary approaches to agricultural and biosystems engineering programs are fostered.