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 August 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

Igathinathane Cannayen, Ph.D.
Indian Institute of Technology, 1997
Research Interests: Biomass Harvest, Storage, Collection and Pre-Processing

J. Paulo Flores
Federal University of Rio Grande do Sul, 2008
Research Interests: Precision Agriculture, Applications of UASs/Drones in Agriculture, UASs/Drone Imagery Analysis, GIS Applications for Precision Agriculture

Kenneth J. Hellevang, Ph.D.
North Dakota State University, 1989
Research Interests: Post Harvest Technology, Structures

Xinhua Jia, Ph.D.
University of Arizona, 2004
Research Interests: Soil and Water Engineering, Hydrology

Zhulu Lin, Ph.D.
University of Georgia, 2003
Research Interests: Water and Soil Resources, Environmental Modeling

Ewumbua Monono, Ph.D.
North Dakota State University, 2015
Research Interests: Application of Engineering to the Science of Bioprocessing, Biofuels, Bioproducts, and Food Safety Engineering

John Nowatzki, M.S.
North Dakota State University, 1974

Matthew Olhoft, M.S.
North Dakota State University
Research Interests: Education, General Agriculture, Agricultural Mechanics, Leadership, Youth Organizations

Scott W. Pryor, Ph.D.
Cornell University, 2005
Research Interests: Biorenewable Products and Bioprocessing

Thomas S. Scherer, Ph.D.
University of Minnesota, 1986
Research Interests: Soil and Water Resources Management, Irrigation Systems

**Dean D. Steele, Ph.D.**  
University of Minnesota, 1991  
Research Interests: Irrigation and Environmental Engineering

**Xin (Rex) Sun, Ph.D.**  
Nanjing Agricultural University, 2013  
Research Interests: Precision Agriculture, Artificial Intelligence in Food and Agriculture, Precision Livestock Production, Meat Quality Non-destructive Detection Methods

**Zhao Zhang, Ph.D.**  
Pennsylvania State University, 2015  
Research Interests: Sensing and Automation in Agricultural and Precision Agriculture