

# Agricultural and Biosystems Engineering

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## Department Information

- **Acting Department Chair:**  
Ken Hellevang, 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/) (<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

### Thomas Bon, Ph.D.

North Dakota State University, 2003

Research Interests: Machine Systems, Electronics and Instrumentation

### 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

Research Interests: Agricultural Machine Systems, Precision Agriculture, Conservation Technology, Farm Equipment Energy Conservation, Energy Efficiency, Farm Chemical Application Technology, Wireless Technology on Farms

### 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