The Technical Systems Management’s (TSM) master’s degree program will prepare you for technical and leadership careers in agricultural and biological systems management. Students will be equipped with advanced knowledge, abilities, and skills to apply physical and natural sciences to solve some of the world’s most pressing problems.

The University of Illinois Department of Agricultural and Biological Engineering (ABE) coordinates the Master of Science degree in TSM in cooperation with the Graduate College. The ABE at Illinois has established itself as one of the leading departments of its kind in the nation. It is dedicated to integrating biology and engineering to enhance the quality of complex living systems.

Combining knowledge of science, systems management, and applications engineering, the TSM program provides excellent preparation for careers in the construction, production, process, and manufacturing of food, fiber, feed, and fuel. Students focus on the application of engineering principles, the study of technology used in agriculture, and the integration of business concepts in the food and agricultural industries.

The program can be completed in 16-months of full-time study on the Urbana-Champaign campus. Summer enrollment is required while completing the internship. A thesis is not required.

**CAREER OPPORTUNITIES**
- Agricultural structures and controls specialist
- Appraiser
- Consultant
- Engineering technician
- Farm manager
- Research and development specialist

**SPECIALIZATIONS**
- Construction Management
- Environmental systems
- Mechanization, marketing and technology management systems
- Production systems
- Renewable energy systems

**FACULTY COORDINATOR**
Dr. Joe Harper  
Department of Agricultural and Biological Engineering  
jgharper@illinois.edu  
(217) 300-2738

Applications may be submitted online. For additional information, visit the University of Illinois PSM website at psm.illinois.edu or email PSMdegree@illinois.edu.
**ADMISSION REQUIREMENTS**

- Bachelor’s degree from a regionally accredited U.S. Institution or a comparable degree from a recognized institution abroad,
- Grade point average of 3.0 or higher (4.0 scale) for the last 60 hours of undergraduate work and for any graduate work,
- Graduate Record Examination (GRE),
- Test of English as a Foreign Language (TOEFL) for non-native speakers of English, and
- Letters of recommendation.

**SAMPLE PROGRAM OF STUDY**

**Year 1: Fall**

*Science Curriculum*
- TSM 430 Project Management
- TSM 435 Electrical Computer Control Systems
- TSM 594 Graduate Seminar

*Business Curriculum*
- Two 2-hour courses in
  - Teamwork and Leadership, and
  - Management and Marketing
- PSM 501 Industry Seminar I

**Year 1: Spring**

*Science Curriculum*
- TSM 464 Engine and Tractor Power
- TSM 465 Chemical Applications Systems
- NRES 510 Advanced Natural Resource Economics
- TSM 501 Graduate Research I

*Business Curriculum*
- Two 2-hour courses in
  - Project Management, and
  - Finance
- PSM 502 Industry Seminar II

**Summer Internship**

**Year 2: Fall**

*Science Curriculum*
- TSM 502 Graduate Research II
- TSM 594 Graduate Seminar
- UP 501 Planning History and Theory
- UP 546 Land Use Policy and Planning

*Business Curriculum*
- One 2-hour course in Science and Regulatory Policy
- PSM 503 Industry Seminar III

**December Graduation**

This is a *sample curriculum*; your courses will depend upon your individual interests and career plans. For additional course offerings, visit: [http://psm.illinois.edu/technical-systems-management](http://psm.illinois.edu/technical-systems-management)

Students have interned at:
- ADM,
- U of I Bollero Research Group,
- Advanced Cooling Therapy,
- Infor,
- and others.

Graduates have been hired by:
- ADM Institute for the Prevention of Postharvest Loss,
- and others.