



TECHNICAL SYSTEMS MANAGEMENT

Merging technology with management in a systematic approach to problem solving is the foundation of the technical systems management (TSM) program. Graduates focus on the application of engineering principles, the study of technology used in agriculture, and the integration of business concepts in food and agricultural industries.

Combining knowledge of business, applications engineering, systems management and science, the TSM program provides excellent preparation for careers at the interface of technical, business, and leadership areas within food, fiber, feed and fuel production, processing and manufacturing.

The Department of Agricultural and Biological Engineering (ABE) coordinates the Master of Science degree in TSM in cooperation with the Graduate College. The ABE department 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.

The program can be completed in 18-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
- Business development
- Technical consultant
- Engineering technician
- Farm manager
- Field sales engineer
- Project management
- Research and development specialist

PROGRAM ADVISORS

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Coordinated by the University of Illinois Department of Agricultural and Biological Engineering in cooperation with the Graduate College.

Applications are 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
- Three (3) letters of recommendation.

SAMPLE PROGRAM OF STUDY

Year 1: Fall

Science Curriculum

ABE 440	Applied Statistical Methods I
TSM 435	Electrical Computer Control Systems
TSM 501	Graduate Research I
TSM 594	Graduate Seminar
TSM 598	Foundations of TSM

Business Curriculum

Two 2-hour courses in

- Business Fundamentals, and
- Management and Marketing

PSM 501	Industry Seminar I
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Year 1: Spring

Science Curriculum

AGED 545	Research Methods and Design
TSM 464	Engine and Tractor Power
TSM 502	Graduate Research II
TSM 594	Graduate Seminar
TSM 596	Independent Study

Business Curriculum

Two 2-hour courses in

- Project Management, and
- Finance

PSM 502	Industry Seminar II
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Summer Internship

PSM 555	PSM Internship
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Year 2: Fall

Science Curriculum

ACE 435	Global Agribusiness Management
ABE 459	Drainage and Water Management
TSM 467	Precision Agriculture Technology
TSM 594	Graduate Seminar
TSM 596	Independent Study

Business Curriculum

One 2-hour course in Science and Regulatory Policy

PSM 503	Industry Seminar III
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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>*

Students have interned at:

- ADM,
- U of I Bollero Research Group,
- Advanced Cooling Therapy,
- Caterpillar,
- Infor,
- J. Walter Thompson,
- Country Financial,
- Purina,
- and others.

Graduates have been hired by:

- ADM Institute for the
- Prevention of Postharvest Loss,
- Carlsbad Technologies
- Infor,
- Dwyer Instruments,
- BioAnalytics,
- and others.