The Illinois Professional Science Master’s (PSM) program in bioenergy is perfect if you want to

- find yourself on the cutting edge of multidisciplinary technology in the emerging and rapidly changing field of bioenergy;
- learn from world-renown scientists and researchers working to develop new technologies;
- build upon decades of research and genetic improvements to Midwestern agricultural crops to develop comprehensive biofuels processing expertise;
- gain an understanding of the environmental, ecological, political, and societal implications of bioenergy; and
- harness the science of bio-based products and energy (biofuels, electricity, biogas, etc.) to create new technologies and effect change.

The science core in bioenergy is complemented by a business curriculum that includes technology management, marketing, entrepreneurship, people and technology at work, and more. A cross-disciplinary industry seminar series offers opportunities to personally interact with industry and government leaders.

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

- Bioenergy feedstock development (e.g., grains, biomass, algae, wastewater)
- Research and development
- Business analysis
- Product and process analysis
- Technical sales
- Analysis for policy or law
- Biorefinery management
- Value-added co-product marketing
- Green chemical development
- Marketing specialist

### SPECIALIZATIONS

- Plants, Soil, and Feedstock
- Production, Processing and Use
- Environmental, Economics, Policy Law
- Tools and Methods

**Faculty Coordinator**

Dr. Hans Blaschek  
Integrated Bioprocessing Research Lab  
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(217) 244-9270

Coordinated by the University of Illinois Integrated Bioprocessing Research Laboratory (IBRL) in cooperation with the Graduate College.

Applications may be submitted online. For additional information, visit the University of Illinois PSM website at [psm.illinois.edu](http://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**
- ACES 409/509 Bioenergy Systems
- CHBE 471 Biochemical Engineering
- CPSC 499 Bioenergy Crops

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

### Year 1: Spring

**Science Curriculum**
- ABE 498 Processing of Biomass
- ACE 592 Law of Renewable Energy
- CHBE 594 Bioenergy and Biofuels Technology
- ACES 501 Bioenergy Seminar Series

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

### Summer Internship

### Year 2: Fall

**Science Curriculum**
- ABE 498 Sustainable Biosystems Engineering
- ABE 598 Automotive Bioenergy
- ACE 501 Risk and Info: Theory and Application

**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/bioenergy](http://psm.illinois.edu/bioenergy)

Students have interned at:
- Dow ArgoSciences,
- U.S. Dept. of Agriculture,
- BP,
- Universidad de São Paulo,
- and others.

Graduates have been hired by:
- DuPont,
- Marquis Energies LLC,
- Greenaltech,
- EdeniQ,
- and others.