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

- find yourself on the cutting edge of multidisciplinary technology in the emerging and rapidly changing field of industrial biotechnology;
- learn from world-renown scientists and researchers working to develop new technologies;
- build upon decades of research and genetic improvements to agricultural crops and microbes to develop comprehensive bioprocessing expertise;
- gain an understanding of the environmental, ecological, political, and societal implications of bioprocessing and 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 bioprocessing and bioenergy is complemented by a business curriculum that includes technology management, marketing, entrepreneurship, process management, regulatory policy, 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.

**Faculty Coordinator**
Dr. Vijay Singh
Integrated Bioprocessing Research Lab
vsingh@illinois.edu
(217) 333-9510

Coordinated by the University of Illinois Integrated Bioprocessing Research Laboratory (IBRL) and Department of Agricultural and Biological Engineering, 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](mailto: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 488   Bioprocessing Biomass for Fuel
- ACES 409/509  Bioenergy Systems
- CPSC 415  Bioenergy Crops

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

#### Year 1: Spring

**Science Curriculum**
- ACE 516  Environmental Economics
- ACES 501  Advanced Bioenergy Topics
- CHBE 594  Bioenergy Technology
- TSM 486  Grain Bioprocessing Coproducts

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

**Summer Internship**
- PSM 555  PSM Internship

#### Year 2: Fall

**Science Curriculum**
- ABE 498  Sustainable Biodigestion Lab
- ACE 501  Risk and Info: Theory and Application
- TSM 438  Renewable Energy Applications

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

**December Graduation**

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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:
- Abengoa,
- BP Biofuels, LLC,
- Clean Energy Trust,
- Dow AgroSciences,
- Illinois EPA,
- Illinois Green Business Assoc.,
- U.S. Dept. of Agriculture,
- U.S. EPA,
- and others.

Graduates have been hired by:
- Archer Daniels Midland (ADM),
- BCS, Incorporated
- Cleantech Group,
- DuPont,
- Greentech,
- Ingredion,
- Oak Ridge National Laboratory,
- Pacific Gas & Electric,
- and others.