



Strategic Intent (version 100105)
Department of Agricultural and Biological Engineering
University of Illinois at Urbana-Champaign
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Core Values (*What we believe in*)

We are in the business of empowering human capacity with knowledge and wisdom. In everything we do, we value:

- Excellence
- Integrity and Ethics
- Creativity and Innovation
- Science-Based Scholarship
- Inclusiveness and Collegiality

Vision (*What we are going to be*)

We will be the best agricultural and biological engineering department in teaching, research, and outreach, while integrating biology and engineering and maintaining a collegial environment that emphasizes professional and personal development.

Mission (*What we are going to do/for whom*)

We integrate life and engineering for enhancement of complex living systems by providing student-centered educational experiences in engineering and systems management, by conducting high impact research, and by delivering value-added information, knowledge, and wisdom.

Domains (*Disciplinary relevance and impact*)

We contribute to engineering and management of complex food, agricultural and biological systems. Departmental emphases include:

- Bio-Based Processing and Production Systems
- Biomass and Renewable Energy
- Precision and Information Agriculture
- Agricultural and Biosystems Management
- Agricultural Safety and Health
- Food Quality and Safety
- Environmental Stewardship
- Land and Water Resources
- Spatially Distributed Systems
- Structure and Facilities for Living Systems

- **Indoor Environmental Control**
- **Bio-sensors, Bio-instrumentation, Bio-informatics, and Bio-nanotechnology**
- **Intelligent Machinery Systems**
- **Automation of Biological Systems**
- **Advanced Life Support Systems**

Goals (*Where we are going to succeed*)

To fulfill our mission, our strategic goals are to:

- **Enhance Student Recruitment and Retention**
- **Integrate and Enhance Curricula**
- **Increase Resources**
- **Design Organization to Advance Strategic Thrusts**
- **Strengthen Faculty Capacity**

Indicators of Success (*How we are going to measure success*)

We measure our progress towards the strategic goals as follows:

- **Enhance Student Recruitment and Retention**
 - **Number of recruitment events participated**
 - **Number of faculty involved in recruitment events**
 - **Student numbers and class size**
 - **Retention rate**
 - **Number and value of scholarships and fellowships**
 - **Placement rate**
 - **Level of entrance requirements (ACT and HSPR)**
 - **Number of student applications**
 - **Teaching evaluation scores**
- **Integrate and Enhance Curricula**
 - **Time to completion of degree**
 - **Section size in combination with credit hours offered**
 - **Number of courses taught in ABE and TSM**
 - **Results of Outcome Assessment**
 - **Coordination of subject matter content among courses**
 - **Measure of bio-content in courses**
- **Increase Resources**
 - **Grant, contract, and gift dollars per faculty FTE**
 - **Amount of indirect cost return**
 - **Number and value of external support for graduate students**

- **Number of instructional units**
- **Number and value of revenue generating activities (e.g. recurring accounts, workshops, short courses, outreach programs, etc)**
- **Measure of engagement in advancement activities**
- **Endowed chair professors**
- **Endowed capstone design instruction**
- **Endowed student recruitment and retention fund**
- **Endowed graduate fellowships**
- **Endowed undergraduate scholarships**
- **Endowed ABE I⁴ Seminar Series**
- **Endowed support for continuous updating of teaching and research facilities and equipment**
- **Endowed support for student field instruction and international experience**
- **Endowed support for alumni awards**

- **Design Organization to Advance Strategic Thrusts**
 - **Frequency of review and revision of organizational structure and administrative processes**
 - **Number of cross sectional proposals**
 - **Number of co-taught courses**
 - **Number of co-advising**
 - **Evaluation of changed administrative structure**

- **Strengthen Faculty Capacity**
 - **Number of endowed chairs**
 - **Number of underrepresented faculty hires (through TOP and regular search)**
 - **Number of Faculty Excellence hires**
 - **Time and funding progress to create bio-faculty**
 - **Number of faculty participating in two-way externships**
 - **Number of faculty participating in Sabbatical leaves**
 - **Number of faculty participating in professional and leadership development activities**