COLLEGE OF ENGINEERING

Strategic Plan: Vision for the Future

Dare to be first.

UNIVERSITY OF DELAWARE
Vision

To become one of the most highly regarded engineering colleges in the nation through the active engagement of faculty, students, staff and alumni whose ever-increasing impact on the state, the nation and the world enables this transformation.
Mission

To provide leadership in solving society’s most challenging problems through:

1. The discovery and application of new knowledge and technologies.
2. The education and development of future leaders who can innovate and implement needed solutions.
3. The formation of knowledge-based partnerships with colleagues throughout the world.

Goals

1. Increase the size, productivity and impact of the College of Engineering as follows:
   - 50% growth by 2014—1,900 undergraduates, 750 graduate students, 150 faculty and $70M in research expenditures.
   - 100% growth by 2020—2,400 undergraduates, 1,000 graduate students, 200 faculty and $120M in research expenditures.

2. Improve the ranking* of the College from 45 to 30 by 2020.

3. Achieve increased financial support through alumni, friends, companies and foundations through strengthened communications and partnerships.

*U.S. News and World Report graduate programs ranking
Increase the number, quality, diversity and success of our students.

- Improve the capability of training leaders by equipping students with the needed technical, business, management, communications and entrepreneurial skills.
- Add computer and information science, undergraduate biomedical engineering and graduate bioengineering degree programs. Consider other strategic degree opportunities.
- Expand the range of professional and 4+1 programs.
- Manage enrollment effectively through efforts aimed at recruiting and retaining academically talented and diverse students.

These steps will be supported by newly endowed scholarships, academic enrichment fellowships, graduate fellowships and program funds for RISE, Women in Engineering, Engineers Without Borders and other student groups.
Continue to build the College’s team of talented and diverse faculty in specific areas.

✔ Create clusters of excellence that address grand challenges in the areas of sustainability, health care and security, with particular emphasis on advanced materials, bioengineering, computer and information technology, energy, environment and nanotechnology.

✔ Implement best practices in faculty recruitment, mentoring and retention.

These steps will be supported by newly endowed faculty chairs.
Increase impactful research activities via strategic partnerships.

- Play a leading role in existing and new cross-campus research institutes and centers.
- Expand existing and create new major research centers in the college.
- Strengthen corporate, community and global partnerships with key collaborators around the world.

These steps will be supported by endowment funds used as seed and matching funds for strategic initiatives.
Expand core research and teaching facilities.

- Interdisciplinary Science and Engineering Laboratory (scheduled for fall 2013).
- Additional buildings to house new and expanding programs.
- Equipment for core facilities.

These facilities will be realized through leadership gifts in support of buildings and equipment that they house.
Metrics

1. Increase the size, productivity and impact of the College of Engineering as follows:
   - Number and quality of faculty
   - Number and quality of students
   - Number of degrees granted
   - Diversity of students, faculty and staff
   - Amount of research expenditures
   - Number of publications and citations per faculty
   - Number of significant partnerships (internal and external)
   - Total college space and amount of core facility space

2. Improve the ranking* of the College from 45 to 30 by 2020.
   - College and department rankings

3. Encourage increased financial support through alumni, friends, companies and foundations through strengthened communications and partnerships.
   - Annual support
     - Percentage of alumni participation
     - Number of Delaware Diamond Society members
   - Major gifts—gifts and pledges of $50k or more
     - Number of gifts
     - Total dollar value
   - Donor Engagement
     - Personal outreach
     - Volunteer involvement

*U.S. News and World Report graduate programs ranking