

UMassD Transform2020

College of Engineering

Strategic Plan

Overview

COE Working Group

Mission

The College of Engineering at the University of Massachusetts Dartmouth strives to serve the needs of the region and the nation by creating and disseminating knowledge through research and teaching and preparing students to excel in their chosen profession and to be contributing citizens in a diverse, changing world.

Vision

The Vision of the College of Engineering is to be recognized globally for excellence in engineering/science education and research and for innovative and interdisciplinary solutions for societal needs.

SP Document

Toward realizing the COE vision, the *Strategic Plan* is a roadmap for the next five (5) years aimed at:

1. Setting realistic, yet bold, goals in research and education;
2. Setting metrics in defining the goals;
3. Developing specific action plans and identifying individuals responsible for implementation;
4. Coordinating the COE *Strategic Plan* so that it reflects stakeholder input and is aligned with the plans of the University.

What are we known for now?*

- Students with good, basic foundational skills who can think and problem-solve
- Students who are grounded
- Strong relationship and engagement factor between students and faculty
- An affordable, “great value” education
- Regional focused university providing educated workforce for the SouthCoast

*Discussion notes from DAC April 10, 2013

What do we want to be known for in 2020?*

- Academic and research excellence
- Collaborative, learning, discovery and engagement
- Innovative, interdisciplinary, cutting-edge academic programs and research
- Student success and leadership
- Research impact and technology innovation
- Catalyst for regional economic development and entrepreneurship
- Global engagement and alumni support

*Discussion notes from DAC April 10, 2013

Strategic Goals

1. Enhance and enrich educational opportunities and ensure a focus on the student;
2. Recruit, retain, and enable a diverse community of exceptional faculty, students, and staff;
3. Increase research enterprise and impact;
4. Develop strategic partnerships and interdisciplinary collaborations;
5. Develop a sustainable infrastructure;
6. Increase visibility, outreach, and community engagement;
7. Devise business model to manage and increase resources/funding and efficiency;
8. Establish a culture of innovation and change.

Teaching & Learning – Objectives

1. Deliver outstanding and evolving education programs, emphasizing experiential learning.
2. Recruit, retain, and graduate better-prepared students.
3. Build upon our legacy of student-centered learning to prepare the inter-disciplinary leaders of tomorrow.
4. Provide a global, real-world perspective of engineering in the learning experience.
5. Lead in the use of technology in education and enhance student access/learning through alternate delivery modes.
6. Foster unique, modern curricula/programs that engage prospective students.

Research & Innovation – Objectives

1. Promote breakthrough faculty research, scholarship, and impact through strategic investments.
2. Recruit, develop, and retain outstanding and diverse faculty who are or will become internationally recognized.
3. Establish and grow major multidisciplinary research programs aligned with institutional priorities and societal needs.
4. Foster a climate of interdisciplinary, translational research and development.

Outreach & Engagement – Objectives

1. Grow and sustain a comprehensive portfolio of strategic alliances that enhance learning and research and innovation.
2. Leverage marketing and communications to maximize visibility and COE brand.
3. Support and partner with K-14 programs to develop age appropriate STEM curriculum and outreach programs.
4. Create a pipeline of high-quality local high-school and middle-school students through engagement via summer projects, dual enrollment and STEM projects.
5. Engage alumni in educational programs and development.

Resources – Objectives

1. Implement an outcomes-based budgeting/financial model that aligns accountability and authority, and that provides incentives for departments to achieve COE and departmental goals.
2. Continue to maximize COE productivity and operating efficiency.
3. Enhance faculty startup reserve funding to support new hires.
4. Develop updated, comprehensive performance database and ability to make informed, strategic decisions.
5. Diversify fiscal resources through an enhanced development effort.
6. Explore new revenue-generating academic/outreach programs.