

# UNLV

HOWARD R. HUGHES

College of  
ENGINEERING

## *Five-Year Strategic Plan*

### **Mission**

**Educate, Engage,  
Inspire, Innovate**

For the Howard R. Hughes College of Engineering our mission, “Educate, Engage, Inspire and Innovate” are not simply four words but what guides everything we do in the College. We are committed to: creating hands-on experiential learning at all student levels; fostering an environment of innovation and high-impact research; engaging the community and collaborating with other academic departments and external entities; and inspiring each other to continue learning and overcoming challenges.



# Fulfilling Our Mission

## Educate

Workforce, innovators, entrepreneurs, community

### Indicators of Success

- Number of B.S., M.S. and Ph.D. students graduated
- Number of certificates granted

## Engage

Diverse groups, campus units, local, regional and global communities, industry partners

### Indicators of Success

- Number of alumni, industry, community partners, and entrepreneurial mentors
- Growth in diversity of student, faculty, and staff population
- Number of annual service projects or engagements by the College

## Inspire

Leaders, educators, innovators, entrepreneurs

### Indicators of Success

- Number of undergraduates engaged in research and continue onto graduate school
- Number of entrepreneurs (students and faculty) from UNLV Engineering
- Number of Ph.D. graduates who become leaders in their field



## Task Force Key Areas

In fall 2015, the College formed a committee of 44 members, including faculty, professional staff, administrative assistants, students, alumni, and advisory board members. Task Forces, consisting of five to seven members, were formed for the following areas: People, Scholarship, Education, External Relations, Internal Relations.

The 2016 Howard R. Hughes College of Engineering Strategic Plan combines the efforts of the Strategic Planning Committee to crystallize the College's vision, mission, strategies, and specific actions to be taken that would lead us to the next level in achieving the goal of being a first-class research university with regards to engineering.

## Core Competencies

(required to fulfill our mission)

### People

#### Measurements

1. Obtain periodic feedback from all COE faculty, staff, and students with the goal of:
  - a. 70% satisfaction by 2016
  - b. 80% satisfaction by 2018
  - c. 90% satisfaction by 2020
2. By 2020, increase the number of qualified faculty, with an emphasis on women and other under-represented groups.
3. Maintain current level for recruiting, retaining, and graduating undergraduates, and raise the quality of recruited students.
4. Increase recruitment of graduate students to 300 applicants, and increase enrollment of graduate students by 90 by 2017.
5. All faculty, staff, and students are adequately trained for their duties, rights, and responsibilities.

### Scholarship

#### Measurements

1. Amount of research expenditures and related data.
2. Number of scholarship activities in the academic communities, as measured by: publications; citations; presentations monographs; etc.
3. Economic impact of the College on our community, as measured by: invention disclosures; provisional and non-provisional patents; licensing deals and number of start-ups; and consulting activities.
4. Number of graduate and undergraduate students working in research laboratories, publishing research, producing software and engaged in other economic development activities.
5. Number of researchers with Ph.D.s employed by the College.
6. Doctoral degrees granted annually by the College and the number of Ph.D. students per faculty member.
7. National rankings of the College and its graduate programs.
8. Placement of Ph.D. graduates.
9. Number of nationally recognized high-volume Centers of Excellence led by the College.



## Innovate

Technologies, educational methodologies

- Number of patents, disclosures, software and publications
- Education methodologies
- Research techniques

## Shared Purpose

Serving a dynamic metropolitan region through the diversification of economy and improvement in quality of life by:

- Education and workforce development
- Creation of knowledge and technology to advance the fields of Engineering and Computer Science
- Community service including input to policy making

## Shared Values

- Quality
- Collaboration
- Professionalism
- Innovation
- Entrepreneurialism

## Education

### Measurements

1. Increase retention and graduation rates for undergraduate students.
2. Increase number of graduate students.
3. Embrace the Science, Technology, Engineering, Art, and Mathematics (STEAM) movement. Increase collaboration between the College of Engineering and non-STEM colleges on campus.
4. Increase perception of producing high-quality graduates.
5. Increase engagement of College Advisory Board.
6. Increase community support through numbers of internships, co-op opportunities, part-time and full-time jobs, and an increase in endowments and scholarships.
7. Improve instructor engagement.



## External Relations

### Measurements

1. Establish an Office of Branding and Networking within the College.
2. Improve stakeholder engagement measured by number of industry-college projects and alumni involvement.
3. Increase level and participation rate of donors.
4. Develop entrepreneurs through collaboration between the College and community.
5. Increase number of internships and faculty consultancies.

## Internal Relations

### Measurements

1. Infrastructural resources benchmarked within one year; funding encumbered permanently for maintenance and growth within three years.
2. Convert transferable paper-based forms to electronic by end of 2017.
3. 100% of College staff to participate in at least one professional development activity yearly.
4. Entire College staff proficiently informed on College matters.

For the complete Howard R. Hughes  
College of Engineering Strategic Plan, please see:



[www.unlv.edu/engineering](http://www.unlv.edu/engineering)



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