

# Engineering Ph.D.

## *Expanded Statement of Institutional Purpose*

### **Institutional Mission Reference**

The Ph.D. in Engineering offers graduate students a high quality degree program in Engineering that meets the national standard of excellence. Program faculty are committed to quality teaching and the discovery of new knowledge. The Ph.D. Engineering program supports the University's mission of providing advanced professional education for the Hampton Roads area and the Commonwealth.

### **Institutional Goal(s) Supported**

The Ph.D. Engineering program supports University goals of (a) quality graduate academic programs, (b) quality teaching, (c) discovery of new knowledge, and (d) community service. (See pages 3-4 of the Old Dominion University Catalog or pages 8-9 of the Strategic Plan.) The Ph.D. in Engineering also supports Strategic Initiative 2 (Excellent Graduate Programs). (See Old Dominion University Strategic Plan.)

## *Intended Educational (Student) Outcomes, Methods for Assessment, Criteria for Success, Assessment Results, and Use of Results*

### **Intended Outcome 1**

Graduates are able to conduct high-quality doctoral research.

**Method for Assessing Outcome 1 and Criterion for Success:** At least 70% of graduates have published (as indicated by notice of acceptance) one or more refereed journal articles related to their doctoral research within 2 years of graduation.

### **Summary of Assessment Data Collected for Outcome 1:**

77% of graduates have published one or more refereed journal article within 2 years of graduation

**Alternate Method for Assessing Outcome 1 and Criterion for Success:** At least 90% of graduates have made a presentation related to their doctoral research at a major professional or technical meeting or conference within 2 years of graduation.

### **Summary of Assessment Data Collected, Alternate Method for Outcome 1:**

90% of graduates have made a presentation related to their doctoral research at a major professional, technical or conference within two years of graduation

### **Use of Assessment Results from Intended Outcome 1 to Improve Academic**

**Program:**

Assessment data collected show a satisfactory academic program

**Intended Outcome 2**

Graduates are successful in finding professional employment within one year of graduation.

**Method for Assessing Outcome 2 and Criterion for Success:** At least 80% of graduates seeking professional employment are employed or have accepted employment at a suitable professional capacity within one year of graduation.

**Summary of Assessment Data Collected for Outcome 2:**

88% of the graduates were employed within one year of graduation

**Alternate Method for Assessing Outcome 2 and Criterion for Success:** At least 50% of graduates seeking academic positions secure such a position within one year of graduation.

**Summary of Assessment Data Collected, Alternate Method for Outcome 2:**

100% of graduates seeking academic positions secured a position within one year of graduation

**Use of Assessment Results from Intended Outcome 2 to Improve Academic Program:**

Assessment data collected show a satisfactory or a very satisfactory academic program

**Intended Outcome 3**

Graduates are satisfied with their academic program and their academic experience at Old Dominion University.

**Method for Assessing Outcome 3 and Criterion for Success:** Within three years of graduation at least 90% of graduates say that they are satisfied with their program and that they would recommend the program to others. Specific comments about program strengths and weaknesses will be sought.

**Summary of Assessment Data Collected for Outcome 3:**

91% of the graduates are satisfied or very satisfied with the program and would recommend the program to others

**Use of Assessment Results from Intended Outcome 3 to Improve Academic**

**Program:**

Assessment data collected show a satisfactory academic program

**Intended Outcome 4**

Graduates who have entered the academia, are able to teach effectively.

**Method for Assessing Outcome 4 and Criterion for Success:** At least 75% of graduates who have entered the academia, received satisfactory teaching evaluations.

**Summary of Assessment Data Collected for Outcome 4:**

100% of graduates who have entered academia, received satisfactory teaching evaluations

**Use of Assessment Results from Intended Outcome 5 to Improve Academic Program:**

Assessment data collected show a very satisfactory academic program

**Intended Outcome 5**

Graduates are able to prepare and submit proposals for research and development funding.

**Method for Assessing Outcome 5 and Criterion for Success:** 70% or more of graduates have prepared and submitted at least one proposal for research and development funding within 2 years of graduation.

**Summary of Assessment Data Collected for Outcome 5:**

88% of graduates have prepared and submitted at least one proposal for research and development within 2 years of graduation

**Use of Assessment Results from Intended Outcome 5 to Improve Academic Program:**

Assessment data collected show a very satisfactory academic program