Ph.D. in Materials Science & Engineering
Florida Agricultural & Mechanical University

Dr. Christy England
Vice Chancellor for Academic & Student Affairs
November 9, 2022

www.flbog.edu
Train materials science engineers to solve complex problems related to emerging technologies & become leaders in the field

Offered jointly with Florida State University as the second program in CIP 40.1001 in the System
Enrollment & Workforce Demand

### PROJECTED ENROLLMENT

<table>
<thead>
<tr>
<th>Year</th>
<th>2-3 students per year initially</th>
<th>4 students per year by year 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>YEAR 1</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>YEAR 5</td>
<td>5</td>
<td></td>
</tr>
</tbody>
</table>

### PROJECTED INCREASE IN WORKFORCE DEMAND

<table>
<thead>
<tr>
<th>Growth Period</th>
<th>Postsecondary Engineering Teachers</th>
<th>Architectural &amp; Engineering Managers</th>
<th>Materials Engineers</th>
</tr>
</thead>
<tbody>
<tr>
<td>2021-2029¹ Growth</td>
<td>18%</td>
<td>15%</td>
<td>12%</td>
</tr>
<tr>
<td>Openings</td>
<td>263</td>
<td>1,150</td>
<td>72</td>
</tr>
<tr>
<td>2020-2030 Growth</td>
<td>13%</td>
<td>4%</td>
<td>8%</td>
</tr>
<tr>
<td>Openings</td>
<td>5,800</td>
<td>8,100</td>
<td>2,100</td>
</tr>
</tbody>
</table>

¹ Workforce data for postsecondary engineering teachers in Florida include years 2020-2028.
Program Resources

BUDGET

- Year 1 total program costs $90,232
- Funded through E&G

CURRENT APPROVED TUITION RATES

- Non-Resident $1,022.04 per credit hour
- Resident $405.67 per credit hour
Program Information

**PURPOSE**

Prepare graduates to conduct research & develop evidence-based practices to improve engineering instruction

**COMPARED TO OTHER SUS PROGRAMS**

2 other doctoral programs in CIP 14.9999 in the System

- Ph.D. in Transportation & Environmental Engineering
- Ph.D. in Engineering & Computing Education
Enrollment & Workforce Demand

PROJECTED ENROLLMENT

YEAR 1

10 students per year initially
5 students per year by year 4

YEAR 5

40

PROJECTED INCREASE IN WORKFORCE DEMAND

<table>
<thead>
<tr>
<th></th>
<th>Postsecondary Engineering Teachers</th>
<th>Training &amp; Development Managers &amp; Specialists</th>
</tr>
</thead>
<tbody>
<tr>
<td>2021-2029¹ Growth</td>
<td>18%</td>
<td>16%</td>
</tr>
<tr>
<td>Openings</td>
<td>263</td>
<td>3,595</td>
</tr>
<tr>
<td>2020-2030</td>
<td>13%</td>
<td>11%</td>
</tr>
<tr>
<td>Growth</td>
<td>5,800</td>
<td>40,000</td>
</tr>
<tr>
<td>Openings</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

¹ Workforce data for postsecondary engineering teachers in Florida include years 2020-2028.
Program Resources

BUDGET

• Year 1 total program costs $191,703
• Funded through E&G

CURRENT APPROVED TUITION RATES

• Non-Resident $690.21 per credit hour
• Resident $448.73 per credit hour
Ph.D. in Nursing
Florida State University

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Program Information

PURPOSE

Train students to teach in nursing programs & contribute scholarship to the field

COMPARED TO OTHER SUS PROGRAMS

5 other doctoral program in the System in CIP 51.3808
**Enrollment & Workforce Demand**

**Projected Enrollment**
- **Year 1**: 6 students per year initially
- **Year 3**: 8 students per year
- **Year 5**: 10 students per year

**Projected Increase in Workforce Demand**

**Nursing Educators**

<table>
<thead>
<tr>
<th>Year Range</th>
<th>Growth</th>
<th>Openings</th>
</tr>
</thead>
<tbody>
<tr>
<td>2021-2029</td>
<td>23%</td>
<td>812</td>
</tr>
<tr>
<td>2020-2030</td>
<td>22%</td>
<td>16,300</td>
</tr>
</tbody>
</table>
BUDGET

- Year 1 total program costs $325,234
- Funded through E&G

CURRENT APPROVED TUITION RATES

- Non-Resident $1,075.66 per credit hour
- Resident $444.26 per credit hour