Texas A&M University

18 Characteristics of Texas Public Doctoral Programs

Programs included only if in existence 3 or more years. Program is defined at the 8-digit CIP code level.

<table>
<thead>
<tr>
<th>Department</th>
<th>Biological &amp; Agricultural Engineering</th>
</tr>
</thead>
<tbody>
<tr>
<td>Doctoral Degree Program</td>
<td>Biological and Agricultural Engineering</td>
</tr>
<tr>
<td>Contact Name</td>
<td>Sonya Stranges</td>
</tr>
<tr>
<td>Contact Phone Number</td>
<td>979-845-3995</td>
</tr>
</tbody>
</table>

### Number of Degrees Per Year

<table>
<thead>
<tr>
<th>Year</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>2017-2018</td>
<td>5</td>
</tr>
<tr>
<td>2018-2019</td>
<td>10</td>
</tr>
<tr>
<td>2019-2020</td>
<td>6</td>
</tr>
</tbody>
</table>

3 Year Average: 7.0

### Graduation Rates

Starting Cohorts: 2008-2010

<table>
<thead>
<tr>
<th>Year</th>
<th>Graduation Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>2008</td>
<td>77.80%</td>
</tr>
<tr>
<td>2009</td>
<td>66.70%</td>
</tr>
<tr>
<td>2010</td>
<td>81.80%</td>
</tr>
</tbody>
</table>

Three Year Graduation Rate: 71%

### Average Time to Degree

Students Starting 2006-2008

<table>
<thead>
<tr>
<th>Year</th>
<th>Average Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>2017-2018</td>
<td>5.70</td>
</tr>
<tr>
<td>2018-2019</td>
<td>5.40</td>
</tr>
<tr>
<td>2019-2020</td>
<td>4.90</td>
</tr>
</tbody>
</table>

Three Year Average: 5.3

### Employment Profile

<table>
<thead>
<tr>
<th>Year</th>
<th>Employed</th>
<th>Still Seeking Employment</th>
<th>Unknown</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Number</td>
<td>Percent</td>
<td>Number</td>
</tr>
<tr>
<td>2017-2018</td>
<td>1</td>
<td>20%</td>
<td>0</td>
</tr>
<tr>
<td>2018-2019</td>
<td>7</td>
<td>70%</td>
<td>0</td>
</tr>
<tr>
<td>2019-2020</td>
<td>6</td>
<td>100%</td>
<td>0</td>
</tr>
</tbody>
</table>

### Admissions Criteria

Students must complete all required admission forms, which include a statement of purpose and letters of reference. Graduate admissions information is available at the Texas A&M University Office of Admissions website, http://admissions.tamu.edu/graduate/apply. Please keep in mind that all admission applications must be submitted via EngineeringCAS. Visit https://baen.tamu.edu/academics/graduates/graduate-admissions/ for more details.

Admission applications to a degree program are evaluated by the BAEN Graduate Program Committee appointed by the Department Head. The chair of the Graduate Program Committee serves as the Director of Graduate Programs and is appointed by the Department Head. The committee uses a student information database (compiled by EngineeringCAS) to evaluate new applicants. Information found in the database includes: (1) GRE scores, (2) TOEFL scores, (3) Area of interest, (4) GPA, (5) Statement of Purpose, (6) Previous degrees and schools, (7) Starting semester, (8) Level of study applying for (degree sought), (9) Official Admission Records (OAR), (10) Application, (11) Recommendations, (12) Resume, (13) Major Professor, and (14) Academic Transcripts.

The committee members evaluate student applications using the information in the above database and approve or deny the admission (by voting). Based on the outcome of the vote, the Director of Graduate Programs will sign acceptance or denial decisions electronically (via EngineeringCAS). The admissions office will then send out acceptance and denial letters to applicants. The department may also issue an admissions letter that contains specific information and conditions pertinent to the admissions process.
<table>
<thead>
<tr>
<th>6</th>
<th>Number of Core Faculty</th>
<th>2017-2018</th>
<th>2018-2019</th>
<th>2019-2020</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Report the number of core faculty for each of the 3 most recent years. “Core faculty” is defined as appropriately credentialed individuals integral to the doctoral program, such as those who teach courses, mentor students, or serve on dissertation committees. Programs leading to Doctor of Medicine (MD) and Doctor of Osteopathic Medicine (DO) degrees are not required to report this characteristic.</td>
<td>22</td>
<td>22</td>
<td>22</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>7</th>
<th>Student-Core Faculty Ratio</th>
<th>2017-2018</th>
<th>2018-2019</th>
<th>2019-2020</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Report the number of full-time student equivalents divided by the number of full-time faculty equivalents of core faculty for each of the 3 most recent years. MD and DO programs are not required to report this characteristic.</td>
<td>1.60</td>
<td>1.60</td>
<td>2.03</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>8</th>
<th>Core Faculty Publications</th>
<th>2017-2018</th>
<th>2018-2019</th>
<th>2019-2020</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Report the average number of discipline-related refereed papers/publications, juried creative/performance accomplishments, and notices of discoveries filed/patents issued per core faculty member for each of the 3 most recent years. If figures include duplicate entries for co-authored publications, indicate the number of duplicate entries in a note. Additional noteworthy faculty activities or awards may be explained in an attached comment. MD and DO programs are not required to report this characteristic.</td>
<td>7.20</td>
<td>8.45</td>
<td>159.00</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>9</th>
<th>Core Faculty External Grants</th>
<th>Number of Core Faculty receiving</th>
<th>2017-2018</th>
<th>External Funds per Faculty</th>
<th>2018-2019</th>
<th>Total External Funds</th>
<th>2019-2020</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>17</td>
<td>$125,705.00</td>
<td>$2,136,977.00</td>
<td>16</td>
<td>$157,619.94</td>
<td>$2,521,919.00</td>
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<tr>
<td></td>
<td></td>
<td>16</td>
<td>$164,463.00</td>
<td>$2,466,944.00</td>
<td>15</td>
<td>$164,463.00</td>
<td>$2,466,944.00</td>
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<tr>
<td></td>
<td></td>
<td>3 Year Average</td>
<td>16</td>
<td>$149,262.65</td>
<td>16</td>
<td>$149,262.65</td>
<td>$2,375,280.00</td>
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<table>
<thead>
<tr>
<th>10</th>
<th>Faculty Diversity</th>
<th>2019-2020</th>
<th>2018-2019</th>
<th>2017-2018</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>White Male</td>
<td>9</td>
<td>9</td>
<td>9</td>
</tr>
<tr>
<td></td>
<td>Female</td>
<td>2</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Black Male</td>
<td>0</td>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>Female</td>
<td>1</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Hispanic Male</td>
<td>0</td>
<td>2</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>Female</td>
<td>2</td>
<td>0</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Native Hawaiian or Other Pacific Islander Male</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>Female</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>Asian Male</td>
<td>8</td>
<td>0</td>
<td>8</td>
</tr>
<tr>
<td></td>
<td>Female</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>International Male</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>Female</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>American Indian or Alaskan Native Male</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>Female</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>Unknown or Not Reported Male</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>Female</td>
<td>0</td>
<td>0</td>
<td>0</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>11</th>
<th>Student Diversity</th>
<th>Fall 2019</th>
<th>Fall 2018</th>
<th>Fall 2017</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>White Male</td>
<td>4</td>
<td>5</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Female</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>Black Male</td>
<td>0</td>
<td>2</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Female</td>
<td>0</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Hispanic Male</td>
<td>0</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Female</td>
<td>0</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Native Hawaiian or Other Pacific Islander Male</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>Female</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>Asian Male</td>
<td>1</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>Female</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>International Male</td>
<td>30</td>
<td>27</td>
<td>22</td>
</tr>
<tr>
<td></td>
<td>Female</td>
<td>11</td>
<td>11</td>
<td>11</td>
</tr>
<tr>
<td></td>
<td>American Indian or Alaskan Native Male</td>
<td>0</td>
<td>7</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>Female</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>Unknown or Not Reported Male</td>
<td>1</td>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>Female</td>
<td>1</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td>Section</td>
<td>Description</td>
<td>Notes</td>
<td></td>
<td></td>
</tr>
<tr>
<td>---------</td>
<td>-------------</td>
<td>-------</td>
<td></td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>Date of Last External Review</td>
<td>Updated when changed</td>
<td></td>
<td></td>
</tr>
<tr>
<td>13</td>
<td>External Program Accreditation</td>
<td>Name of accrediting body and date of last program accreditation review, if applicable</td>
<td></td>
<td></td>
</tr>
<tr>
<td>14</td>
<td>Percentage Full-time Students</td>
<td>Report the fall semesters’ number of full-time student equivalents divided by the headcount number of students enrolled for each of the 3 most recent years. Definition of “full-time student” is 18 semester credit hours (SCH) per year.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>14</td>
<td>Fall 2017</td>
<td>94.1%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>14</td>
<td>Fall 2018</td>
<td>80.0%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>14</td>
<td>Fall 2019</td>
<td>93.6%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>15</td>
<td>Average Institutional Financial Support Provided</td>
<td>For those receiving financial support, report the average annual monetary institutional support provided per full-time student from assistantships, scholarships, stipends, grants, and fellowships (does not include tuition or benefits) for each of the 3 most recent years.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>15</td>
<td>2017-2018</td>
<td>$19,401.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>15</td>
<td>2018-2019</td>
<td>$18,057.52</td>
<td></td>
<td></td>
</tr>
<tr>
<td>15</td>
<td>2019-2020</td>
<td>21,923.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>16</td>
<td>Percentage Full-Time Students with Institutional Financial Support</td>
<td>Report the percentage of full-time students with at least $1,000 of annual support for each of the 3 most recent years.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>16</td>
<td>2017-2018</td>
<td>94.11%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>16</td>
<td>2018-2019</td>
<td>97.62%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>16</td>
<td>2019-2020</td>
<td>97.72%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>17</td>
<td>Faculty Teaching Load</td>
<td>Report the total number of SCH in organized teaching courses taught per academic year by core faculty divided by the number of core faculty for each of the 3 most recent years. Organized classes include lecture, laboratory, and seminar courses.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>17</td>
<td>2017-2018</td>
<td>20.9</td>
<td></td>
<td></td>
</tr>
<tr>
<td>17</td>
<td>2018-2019</td>
<td>23.4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>17</td>
<td>2019-2020</td>
<td>23.9</td>
<td></td>
<td></td>
</tr>
<tr>
<td>18</td>
<td>Student Publications/Presentations</td>
<td>Report the number of discipline-related refereed papers/publications, juried creative/performance accomplishments, and external presentations per year for each of the 3 most recent years. If figures include duplicate entries for co-authored publications, indicate the number of duplicate entries in a note.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>18</td>
<td>2017-2018</td>
<td>1.1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>18</td>
<td>2018-2019</td>
<td>0.9</td>
<td></td>
<td></td>
</tr>
<tr>
<td>18</td>
<td>2019-2020</td>
<td>33.0</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Notes:**
The sum of #10 (Faculty Diversity) could be less than #6 (Number of Core Faculty) if some faculty have chosen to keep their information confidential.