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## Table 8-6

Engineering research doctorate recipients, statistical profile by sex and major field of doctorate: 2022

(Number, percent, and median years)

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<th>Chemical and petroleum engineering</th>
<th>Civil, environmental, and transportation engineering</th>
<th>Electrical and computer engineering</th>
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<th>Industrial engineering and operations research</th>
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### Table 8-6
Engineering research doctorate recipients, statistical profile by sex and major field of doctorate: 2022
(Number, percent, and median years)

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<tr>
<td>Has dependent age 18 or younger (%)</td>
<td>11.5</td>
<td>6.7</td>
<td>6.9</td>
<td>21.1</td>
<td>11.6</td>
<td>16.7</td>
<td>21.4</td>
<td>9.8</td>
<td>7.0</td>
<td>12.1</td>
</tr>
<tr>
<td>Has one or more functional limitations (%)</td>
<td>12.5</td>
<td>13.2</td>
<td>11.5</td>
<td>11.3</td>
<td>11.2</td>
<td>11.1</td>
<td>14.7</td>
<td>13.9</td>
<td>13.4</td>
<td></td>
</tr>
<tr>
<td>Age at doctorate (median years)</td>
<td>29.7</td>
<td>29.0</td>
<td>29.0</td>
<td>30.7</td>
<td>30.2</td>
<td>30.3</td>
<td>30.2</td>
<td>28.9</td>
<td>30.1</td>
<td>30.1</td>
</tr>
<tr>
<td>Bachelor's in same field as doctorate (%)b</td>
<td>76.2</td>
<td>76.0</td>
<td>84.8</td>
<td>75.7</td>
<td>75.1</td>
<td>74.7</td>
<td>66.5</td>
<td>68.1</td>
<td>85.2</td>
<td>72.3</td>
</tr>
<tr>
<td>Master's earned (%)</td>
<td>73.0</td>
<td>54.8</td>
<td>57.6</td>
<td>89.0</td>
<td>84.9</td>
<td>85.3</td>
<td>81.8</td>
<td>61.9</td>
<td>79.6</td>
<td>85.9</td>
</tr>
<tr>
<td>Master's earned at same doctorate institution (%)</td>
<td>52.8</td>
<td>58.8</td>
<td>50.5</td>
<td>45.5</td>
<td>55.1</td>
<td>42.9</td>
<td>43.8</td>
<td>54.7</td>
<td>57.5</td>
<td>58.5</td>
</tr>
<tr>
<td>Time to doctorate (median years)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Years since earning bachelor's degree</td>
<td>7.1</td>
<td>6.6</td>
<td>6.5</td>
<td>8.1</td>
<td>7.8</td>
<td>8.0</td>
<td>7.9</td>
<td>6.6</td>
<td>7.3</td>
<td>7.3</td>
</tr>
<tr>
<td>From graduate school start</td>
<td>6.3</td>
<td>6.0</td>
<td>5.8</td>
<td>7.0</td>
<td>6.8</td>
<td>7.1</td>
<td>6.8</td>
<td>5.8</td>
<td>6.7</td>
<td>6.6</td>
</tr>
<tr>
<td>From doctoral program startc</td>
<td>5.3</td>
<td>5.5</td>
<td>5.2</td>
<td>5.0</td>
<td>5.4</td>
<td>5.0</td>
<td>5.0</td>
<td>5.0</td>
<td>5.3</td>
<td>5.0</td>
</tr>
<tr>
<td>Received tuition remission (%)</td>
<td>87.6</td>
<td>90.1</td>
<td>88.5</td>
<td>87.9</td>
<td>86.7</td>
<td>87.8</td>
<td>85.5</td>
<td>85.5</td>
<td>88.5</td>
<td>84.7</td>
</tr>
</tbody>
</table>

D = suppressed to avoid disclosure of confidential information.
a Includes doctorate recipients who did not report sex.
b A bachelor’s and doctoral degree are considered to be in the same field if doctorate recipient’s first or most recent bachelor’s degree is in the same broad field as their doctoral degree.
c Time to doctorate from doctoral program start is based on master’s degree entry if the master’s degree was at the same doctoral institution in the same field of study or was a prerequisite to the doctorate; otherwise, it is based on doctoral program entry.

Note(s):
Due to rounding, percentages may not sum to 100. Beginning in 2021, a modified version of the 2020 Classification of Instructional Programs (CIP) codes was used in the survey data collection, and new broad, major, and detailed fields are used in tables reporting data from 2021 to the present; see the field list in table A-4. Therefore, the field of doctorate data prior to 2021 may not be comparable to subsequent years. For more information, see the “Technical Notes” and the SED 2021 Taxonomy Changes Working Paper (available at https://ncses.nsf.gov/pubs/ncses23200).

Source(s):