### PhD Completions and Placement, Ten Year Trend 2003-2004 to 2012-2013
#### Mechanical Engineering

<table>
<thead>
<tr>
<th>Category</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Graduates</strong></td>
<td></td>
</tr>
<tr>
<td>2003 - 2004</td>
<td>15 11 18 14 18 10 15 10 11 14</td>
</tr>
<tr>
<td>Percent of Graduates with Placement Info</td>
<td>93% 100% 100% 86% 89% 100% 100% 90% 100% 79%</td>
</tr>
<tr>
<td>Grads Average Time to Degree in Years*</td>
<td>5.52 5.07 5.11 5.43 5.83 5.30 5.48 5.40 5.66 5.02</td>
</tr>
<tr>
<td>Grads Median Time to Degree in Years*</td>
<td>4.75 5.25 5.25 5.25 5.25 5.00 5.75 5.63 5.50 4.13</td>
</tr>
<tr>
<td><strong>Average per Year</strong></td>
<td>14 94% 5.38 5.18</td>
</tr>
</tbody>
</table>

*Time to degree represents the time in years from the graduates’ first admission to TGS until their graduation term.

**Quarterly graduation started in Summer 2010. Each year spans Summer to Spring graduation terms.

### Placement Category Definitions

- **Academic:** Includes teaching, research, and administrative positions at a university or college. Examples include Assistant Professor, Associate Professor, Instructor, Lecturer, and Senior Research Associate.
- **Postdoctoral/Additional Training:** Includes postdoctoral fellows, researchers, associates, and other training positions, such as residents and students pursuing additional degrees. Examples include Postdoctoral Fellow, Postdoctoral Associate, Postdoctoral Researcher, Postdoctoral Scholar, Medical Resident, and Student.
- **Industry:** Includes research, leadership, technical, and professional positions at private industries and businesses. Examples include Research Scientist, Research Engineer, Consultant, and CEO.
- **Government/Non-Profit:** Includes positions in local, state, and federal government organizations. Also includes research and leadership positions at non-profit organizations. Examples include Senior Staff Scientist, Research Analyst, Statistician, Economist, Psychologist, and Director.
- **Other:** Includes anyone who does not fit into the above categories. Examples include Clinical Psychologist, Homemaker, Teaching K-12, Self-Employed, Independent Scholar, Private Practitioner, Physician and Deceased.

Placement information is captured in the TGS PhD Placement Database using graduate responses from the Exit Survey and Survey of Earned Doctorates, and updated with the help of faculty and staff after each graduation. The database is intended to capture all first placement information, as well as all subsequent placements since graduation. This summary presents the placement information TGS has captured on graduate’s first placements, including temporary positions, and a section on most recent placements. Over the past 10 years, an average of 94% of graduates in Mechanical Engineering have known placement information. For the 2012 - 2013 graduates, 11 out of 14 have known placements.

Source: TGS Placement Database

As of 7/15/2014
Mechanical Engineering, PhD Graduates
First Placement Category by Graduation Year, Ten Year Trend

Number of Grads with Placement Info

Percent of Graduates with Placement Information

Source: TGS Placement Database
As of 7/15/2014
All PhD Graduates, 2003-2004 to 2012-2013 Combined
First Placement Category by Broad Field Category

- Arts and Humanities: 75% Academic, 13% Post Doc/Add'l Training, 3% Industry, 7% Gov't/Non-Profit, 3% Other
- Life Sciences: 12% Academic, 71% Post Doc/Add'l Training, 12% Industry, 3% Gov't/Non-Profit, 3% Other
- Physical Sciences, Mathematics, and Engineering: 15% Academic, 40% Post Doc/Add'l Training, 40% Industry, 3% Gov't/Non-Profit, 3% Other
- Social and Behavioral Sciences: 58% Academic, 22% Post Doc/Add'l Training, 12% Industry, 5% Gov't/Non-Profit, 3% Other

Source: TGS Placement Database
As of 7/15/2014
Mechanical Engineering PhD Graduates, 2003-2004 to 2012-2013 Combined
Academic and Postdoctoral/Additional Training Carnegie Classification of Known First Placements

The Carnegie Classification provides categories for all U.S. Higher Education institutions into one of the following general areas:

- **Research/doctoral universities** are institutions that offer a variety of baccalaureate degrees and award at least ten doctoral degrees per year across at least three academic disciplines or at least twenty doctoral degrees per year overall.

- **Master's colleges and universities** are institutions that offer a variety of baccalaureate degrees and award twenty or more master's degrees per year.

- **Baccalaureate colleges** are institutions that award baccalaureate degrees.

- **Other** includes colleges awarding associate degrees and specialized institutions that award degrees in a particular field such as medical and law schools, religious institutions, schools of business, engineering, art, design, and military institutes.

Also included are **foreign institutions** outside of the U.S. that award higher education degrees.

* Excludes not-for-profit and government positions.

Source: TGS Placement Database

As of 7/15/2014
The figure above shows the U.S. News and World Report ranking of national universities and liberal arts colleges where Northwestern University PhD graduates first placed in an academic or postdoctoral position at a U.S. institution.

* Excludes foreign and not-for-profit and government positions.
<table>
<thead>
<tr>
<th>Academic</th>
<th>Not-for-Profit/Government</th>
<th>Industry</th>
<th>Post-Doctoral</th>
</tr>
</thead>
<tbody>
<tr>
<td>Northwestern University (3)</td>
<td>Vanderbilt University (1)</td>
<td>Samsung (4)</td>
<td>Northwestern University (2)</td>
</tr>
<tr>
<td>State University of New York - Stony Brook (2)</td>
<td>Colorado School of Mines (1)</td>
<td>3M Corporation (1)</td>
<td>Exxon Mobil (1)</td>
</tr>
<tr>
<td>Oregon State University (2)</td>
<td>State University of New York - Binghamton (1)</td>
<td>ATK (1)</td>
<td>Carnegie Mellon University (1)</td>
</tr>
<tr>
<td>University of North Carolina - Chapel Hill (1)</td>
<td>Tulane University (1)</td>
<td>Exxon Mobil (2)</td>
<td>Georgia Institute of Technology - Main Campus (1)</td>
</tr>
<tr>
<td>University of Texas - Austin (1)</td>
<td>University of Colorado - Boulder (1)</td>
<td>Aerospace Corporation (1)</td>
<td>University of Illinois - Urbana Champaign (1)</td>
</tr>
<tr>
<td>University of Washington - Seattle (1)</td>
<td>Arizona State University - the Tempe Campus (1)</td>
<td>Kinea Design, LLC (2)</td>
<td>University of Minnesota - Twin Cities (1)</td>
</tr>
</tbody>
</table>

Most frequent employers by placement category, listed first by frequency, then US News ranking group.