IISc Alumni Statistics

June 2007

Note: This is only a first approximation document. Only some of the numbers are exact and most of the numbers are estimates (based on available data). As more data becomes available, the estimates would become exact/more accurate. This was prepared by the Alumni Cell, IISc in June 2007.

The IISc Alumni Cell welcomes feedback on this document. Please send your feedback to smohan@isu.iisc.ernet.in.

1. TOTAL NUMBER OF ALUMNI

Number of Alumni who have graduated from IISc during 1956-2006: 18421 (exact)
- Ph D (Science) : 2535
- Ph D (Engineering): 1846
- MSc (Engineering) : 1500
- ME : 7626
- MTech : 920
- BE : 2184
- Others : 1810

Number of Alumni from 1909-1955 @ 30 per year = 1500 (approximate)
Total Number of Alumni from 1909-2006: 21000 (approximate)
Total Number of Living Alumni: 17000 (approximate)

Total Number of Active Alumni: 14000 (approximate)
(who are still in service)

- In India: 9000 (very rough estimate)
- Overseas: 5000 (approx. 4000 in USA)

All figures below correspond to active alumni.
2. ALUMNI WHO ARE ON ACADEMIC/TEACHING/POSTDOC POSITIONS

<table>
<thead>
<tr>
<th>Category</th>
<th>Number</th>
<th>Percentage out of 14000 active alumni</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Exact:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>IISc faculty</td>
<td>226</td>
<td>1.61</td>
</tr>
<tr>
<td>QIP (Ph D)</td>
<td>343</td>
<td>2.45</td>
</tr>
<tr>
<td>QIP (ME/MTech)</td>
<td>283</td>
<td>2.02</td>
</tr>
<tr>
<td><strong>Lower Bounds:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>IIT Faculty</td>
<td>140</td>
<td>1.0</td>
</tr>
<tr>
<td>FIP (Ph D)</td>
<td>100</td>
<td>0.71</td>
</tr>
<tr>
<td>Post-Docs Overseas</td>
<td>400</td>
<td>2.87</td>
</tr>
<tr>
<td>Faculty Overseas</td>
<td>500</td>
<td>3.57</td>
</tr>
<tr>
<td><strong>Approximate/Rough Estimates:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Faculty in other National Institutes</td>
<td>100</td>
<td>0.71</td>
</tr>
<tr>
<td>Faculty in other Universities</td>
<td>700</td>
<td>5.00</td>
</tr>
</tbody>
</table>

Summary: Approximately 20 percent of the currently active IISc Alumni are in faculty/post-doc positions.

3. ALUMNI WHO ARE IN GOVT/PUBLIC SECTOR POSITIONS

<table>
<thead>
<tr>
<th>Category</th>
<th>Number</th>
<th>Percentage out of 14000 active alumni</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Lower Bounds:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ERP (Public Sector)</td>
<td>400</td>
<td>2.86</td>
</tr>
<tr>
<td>DRDO (ME/MTech)</td>
<td>450</td>
<td>3.21</td>
</tr>
<tr>
<td>Defence (ME/MTech)</td>
<td>450</td>
<td>3.21</td>
</tr>
</tbody>
</table>
Summary: Approximately 30 percent of the currently active alumni are in the Government/Public Sector Positions.

4. ALUMNI WHO ARE IN THE PRIVATE SECTOR

<table>
<thead>
<tr>
<th>Category</th>
<th>Number</th>
<th>Percentage out of 14000 active alumni</th>
</tr>
</thead>
<tbody>
<tr>
<td>Exact:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Infosys</td>
<td>96</td>
<td>0.68</td>
</tr>
<tr>
<td>Lower Bounds:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ERP candidates</td>
<td>300</td>
<td>2.14</td>
</tr>
<tr>
<td>Entrepreneurs/self-employed</td>
<td>100</td>
<td>0.71</td>
</tr>
<tr>
<td>Tata IT Companies</td>
<td>400</td>
<td>2.85</td>
</tr>
<tr>
<td>Wipro</td>
<td>100</td>
<td>0.71</td>
</tr>
<tr>
<td>Approximate/Rough Estimates:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Entrepreneurs/self-employed</td>
<td>100</td>
<td>0.71</td>
</tr>
<tr>
<td>Satyam</td>
<td>100</td>
<td>0.70</td>
</tr>
<tr>
<td>IBM</td>
<td>100</td>
<td>0.71</td>
</tr>
<tr>
<td>Industrial Research Labs</td>
<td>200</td>
<td>1.42</td>
</tr>
<tr>
<td>(IBM IRL, GE, GM, etc.)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>High-end MNCs</td>
<td>400</td>
<td>2.84</td>
</tr>
<tr>
<td>(Google, Yahoo, TI, etc.)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Other IT Companies</td>
<td>2000</td>
<td>14.28</td>
</tr>
<tr>
<td>Aero/Auto Companies</td>
<td>1000</td>
<td>7.14</td>
</tr>
<tr>
<td>BT/Pharma/Chemical</td>
<td>2000</td>
<td>7.14</td>
</tr>
</tbody>
</table>

Summary: Approximately 50 percent of the currently active alumni
are in Private Sector Positions.

5. IISc PLACEMENT CENTRE STATISTICS (PAST SIX YEARS)

Number of Students Placed (mostly ME/MTech/MSc(Engg)):

<table>
<thead>
<tr>
<th>Year</th>
<th>IT</th>
<th>BT</th>
<th>AERO/AUTO</th>
</tr>
</thead>
<tbody>
<tr>
<td>2002</td>
<td>162</td>
<td>4</td>
<td>47</td>
</tr>
<tr>
<td>2003</td>
<td>160</td>
<td>3</td>
<td>54</td>
</tr>
<tr>
<td>2004</td>
<td>206</td>
<td>2</td>
<td>58</td>
</tr>
<tr>
<td>2005</td>
<td>193</td>
<td>2</td>
<td>63</td>
</tr>
<tr>
<td>2006</td>
<td>179</td>
<td>3</td>
<td>49</td>
</tr>
<tr>
<td>2007</td>
<td>181</td>
<td>2</td>
<td>55</td>
</tr>
<tr>
<td>2002-07 Total</td>
<td>1081</td>
<td>16</td>
<td>326</td>
</tr>
</tbody>
</table>

Percentage 76 1 23

Summary: Almost three fourths of the students are getting placed in IT companies including high-end MNCs. The rest of the placements are in the Aero/auto Sector. Ph D graduates in Engineering are mostly joining industrial research labs in India while Ph D graduates in Science mostly take up PDF positions abroad.

6. STATISTICS ON OVERSEAS ALUMNI

6.1. Statistics on 202 alumni who have registered for the IISc Global Conference: (Information Collected from the Global Conference Website)

1. University Faculty/ Post Docs --> 34 (16.83 percent)
2. IT Companies --> 98 (48.51 percent)
3. Entrepreneurs --> 8 (3.9 percent)
4. Research Labs (JPL /NASA) --> 11 (5.44 percent)
5. Biotech / Health care --> 21 (10.39 percent)
6. Aero/Auto --> 15 (7.42 percent)
7. Other (Govt, Retired) --> 15 (7.42 percent)
6.2 Statistics on 500 Alumni in USA on whom definite data is available:
(Information provided by Mohan Raj Goyal, IISc AANA)

1. University Faculty/ Post Docs --> 89 (17.8 percent)
2. IT Companies --> 213 (42.6 percent)
3. Entrepreneurs --> 27 (5.4 percent)
4. Research Labs (JPL /NASA) --> 32 (6.4 percent)
5. Biotech --> 70 (14 percent)
6. Aero/Auto --> 44 (8.8 percent)
7. Other (Govt, Retired) --> 25 (5 Percent)

6.3. "Rough" Projections Provided by IISc AANA (Alumni Association of North America)

Total number of IISc alumni in USA: 4000+
Total Number of Science Alumni in USA: 2000+
Total Number of Engg Alumni in USA: 2000-

Region-wise distribution:
   California - 30%
   East Coast - 40%
   Rest of US - 30%

Number working in Universities as Faculty/Post-Docs: 25%
Number working as researchers in research labs: 15%
Number working in IT companies:30%
Number working in Biotech/health-care companies: 15%
Number working in aero/auto companies: 5%
Number who are entrepreneurs:2-3%
Number who are CEOs/CTOs:5%

7. IISc - EMINENT ALUMNI

IISc is easily the "Number One" Institution in India in terms of having produced a large number of alumni who are:

(a) Padma awardees
(b) Bhatnagar awardees
8. RATIONALE FOR SOME OF THE ESTIMATES:

ACADEMIC FACULTY:

Faculty in IISc: 226
(including scientific staff)
(Figure obtained from the Handbook)

Faculty in IITs - Approx. 140 (lower bound)
- IIT Madras has close 58 including as many as 13 in chemistry and 7 in the CSE Department
- IIT KGP has 15 (minimum)
- IIT Bombay has 25 (minimum)
- IIT Delhi has 15 (minimum)
- IIT Roorkee has 15 (minimum)
- IIT Kanpur has 15 (minimum)
- IIT Gauhati has 5 (minimum)

Faculty in TIFR/NCBS/JNC/RRI/IIM/ISI
and other National Institutes: 100
(2 per institute - 50 institutes)

Faculty in other Universities:
The following is known.
QIP (PhD): 343 (exact)
QIP (ME/MTech): 283 (exact)
FIP (PhD): 100 (lower bound)
Total QIP/FIP: 726 (lower bound)
Others: 700 (Gross Estimate)
(For every QIP/FIP, we are assuming there is one non-QIP/FIP who is an IISc alumni and who holds a faculty position in
some university)

Post-Docs Overseas: 400
Assuming (1) about 100 graduates go abroad per year as Post-Docs and (2) an average duration of 4 years for PDF.
Total number of IISc alumni who took up PDF positions so far: approximately 3000 (@100 per year for 30 years)

Faculty Overseas: 500
Science: Assuming that 10 percent of the Post-Docs took up faculty positions would give 300 faculty positions.
Engineering: CSA has 25 alumni who are faculty abroad. We can assume a safe average of 20 per each major engineering department. This would give 200 faculty from engineering departments.

GOVT/PUBLIC SECTOR

ERP candidates from public sector: About 400 (available from the IISc records)

DRDO (ME/MTech) program: 15 x 30 = 450
Defence (ME/MTech) program: 15 x 30 = 450
IISc alumni who joined DRDO: 200
Defence Total: 450 + 450 + 200 = 1100

ISRO (ME/MTech): 15 x 20 = 300
ISRO (Total): 300 + 100 = 400

CSIR Labs: 400 (@ 8 per lab). NAL, Bangalore alone accounts for 40.

Other Public Sector: 2000 (7.15 percent) (could be more)
(At the rate of 10 per company of 200 major companies)

PRIVATE SECTOR

ERP candidates from private sector: about 300 (available from IISc records)
Entrepreneurs: 100
(USA right now has about 50 of them; Bangalore has about 30 of them; 20 in the rest of India)

Tata IT Companies: 400 (approximate)
(During the 1980s and 90s, TCS recruited a large number of IISc graduates - 20 to 30 per year for about 15 years from all engineering disciplines. Many of them continue to work for Tata companies such as TCS, Tata Elxi, Tata Infotech, etc.)

Infosys: 96 (exact)
Wipro: 100 (at least)
Satyam: 100 (at least)
IBM: 100 (approximate)

Industrial Research Labs: 200
(IBM IRL, GE R&D, GM ISL, etc.)
Every year, about 10 to 15 have been joining for 15 years now)

High-end MNCs: 400
(Google, Yahoo, TI, etc.)
(Every year, about 20 have been joining for about 20 years now)

Other IT Companies: 2000
(100 per year for 20 years)

Aero/Auto Companies: 1000
This is one third of the number of people who joined the IT sector (Figures from the Placement Centre)

BT/Pharma/Chemical Industry: 2000
including research labs
(Assuming that two thirds of the Post-Docs on an average take up such jobs)
About 80 percent of this would be in USA.

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