The Importance of Industry-Sponsored Research

*Workshop Presentation*

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Recent Trends in U.S. R&D Spending Highlight the Need for UF to Increase Industry-Sponsored Research

- Compared to the U.S., total R&D spending as a % of GDP is higher in Japan and S. Korea, similar in Germany, and significantly lower in China, India, and the UK.

- Over the past 30+ years, total U.S. R&D spending (at approx. 3% of GDP) has kept pace with overall U.S. GDP growth – both increasing at ~3%/yr. in constant dollars.

- The rate of increase in U.S. federal R&D funding has lagged the overall increase in total domestic R&D spending.
  - Recent federal budget constraints and “sequestration” exacerbate this trend.

Most forecasters predict that federal R&D funding will continue to lag, resulting in lower success rates for proposals submitted to U.S. agencies.

Data sources: NSF; Battelle
UF Currently Lags Several of its “Peers” in Both Absolute Level and % of Industry-Sponsored Research Expenditures

<table>
<thead>
<tr>
<th>“Peer” Universities</th>
<th>Total Research Exp. ($Millions)</th>
<th>“Business-Sponsored” Research Exp. ($Mil)</th>
<th>% (All Data are 3 year Avg. thru FY 2012)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Florida</td>
<td>706</td>
<td>24</td>
<td>3.4</td>
</tr>
<tr>
<td>Ga. Tech</td>
<td>653</td>
<td>44</td>
<td>6.7</td>
</tr>
<tr>
<td>UC-Davis</td>
<td>700</td>
<td>38</td>
<td>5.4</td>
</tr>
<tr>
<td>Ohio State</td>
<td>785</td>
<td>108</td>
<td>13.7</td>
</tr>
<tr>
<td>UC- Berkeley</td>
<td>711</td>
<td>88</td>
<td>12.4</td>
</tr>
<tr>
<td>UNC – Chapel Hill</td>
<td>802</td>
<td>26</td>
<td>3.2</td>
</tr>
<tr>
<td>UT - Austin</td>
<td>615</td>
<td>64</td>
<td>10.4</td>
</tr>
<tr>
<td>Texas A&amp;M - CS</td>
<td>696</td>
<td>50</td>
<td>7.2</td>
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Given the increasing importance of industry-sponsored research to universities, UF needs to increase industry collaborations to achieve/sustain its desired “preeminence” status.

Data source: NSF
Opportunities for Industry Research Collaborations Should Be Plentiful at an Institution with UF’s Breadth

The breadth, diversity, and capabilities of UF research expertise offers unique opportunities to partner with companies from across all industrial sectors.

16 Colleges on a Common Campus

- Medicine
- Agricultural and Life Sciences
- Engineering
- Liberal Arts and Sciences
- Public Health and Health Professions
- Education
- Veterinary Medicine
- Dentistry
- Health and Human Performance
- Design, Construction and Planning
- Pharmacy
- Business Administration
- Nursing
- Law
- Journalism and Communications
- Fine Arts

Over 4000 faculty members

Over 150 centers & institutes

Approximately 15,000 graduate/professional students

Approximately 35,000 undergraduates

Approximately 15,000 graduate/professional students
To Capitalize on UF’s Strengths, the Office of Research Wants to Aid PIs with Expertise of Probable Interest to Industry

• Barry Curtis was hired in August 2013 as Assistant Director for Industrial Outreach, a new role at UF

• Working with colleges across campus, we are increasing the emphasis on visiting companies to determine both their research needs and potential interests in research collaborations with UF
  - Many companies seek competitive advantage thru accelerated R&D results

• We are building relationships with Federal program managers who oversee R&D funding opportunities that emphasize industry/academic proposal development
  - We see opportunities for collaborating with industry on these joint proposal submissions

This workshop – and others held/to be organized across campus - also support PIs seeking to attract additional/diverse funding sources – including industry collaborations