University of Illinois at Urbana-Champaign

Dashboard Indicators

RESEARCH PERFORMANCE UPDATES BY:
UNIVERSITY OFFICE FOR PLANNING AND BUDGETING
JULY 9, 2013

PRESENTED BY:
CHANCELLOR PHYLLIS WISE
JULY 25, 2013
Peer Groups

University of Illinois at Urbana-Champaign*
University of California - Berkeley*
University of California - Los Angeles
University of California - San Diego
University of Michigan - Ann Arbor
University of North Carolina - Chapel Hill
University of Texas - Austin*
University of Washington
University of Wisconsin - Madison
University of Virginia

* No medical center or College of Medicine.
Though increasing in FY 2011 and FY 2012, research and development expenditures at the University of Illinois at Urbana-Champaign are less than the peer median.

Urbana-Champaign does not have a medical center nor a college of medicine, but seven of its nine peers have one or both.

* As reported to the NSF Survey of Research and Development Expenditures. Fiscal Year 2012 peer data not available.
Total Research and Development Expenditures* Among Peers Without Medical Schools FY 2007 – FY 2012

* As reported to the NSF Survey of Research and Development Expenditures.
University of Illinois at Urbana-Champaign receives less total federal research funding than its peer median.

Urbana-Champaign does not have a medical center nor a college of medicine, but seven of its nine peers have one or both.

* As reported to the NSF Survey of Research and Development Expenditures. Fiscal Year 2012 peer data not available.
Total Federal Research and Development Funding* Among Peers Without Medical Schools FY 2007 – FY 2012

* As reported to the NSF Survey of Research and Development Expenditures.
University of Illinois at Urbana-Champaign receives more NSF funding than its peer median and is consistently ranked in the top three among its peers.

NSF is the largest source of Federal R&D funding for the University of Illinois at Urbana-Champaign.

* Some institutions reported combined campus data. Fiscal Year 2012 peer data not available.
## National Science Foundation Funded Awards
### Top 15 Institutions FY 2012

<table>
<thead>
<tr>
<th>Institution</th>
<th>Total</th>
<th>Research Support</th>
<th>Education &amp; Human Resources</th>
<th>Major Research Equipment</th>
</tr>
</thead>
<tbody>
<tr>
<td>University of Illinois at Urbana-Champaign</td>
<td>$218,699</td>
<td>$214,543</td>
<td>$4,156</td>
<td>$0</td>
</tr>
<tr>
<td>Consortium for Ocean Leadership, Inc</td>
<td>$188,460</td>
<td>$85,660</td>
<td>$0</td>
<td>$102,800</td>
</tr>
<tr>
<td>University Corporation For Atmospheric Res</td>
<td>$125,749</td>
<td>$125,171</td>
<td>$578</td>
<td>$0</td>
</tr>
<tr>
<td>University of Washington</td>
<td>$114,784</td>
<td>$102,369</td>
<td>$12,415</td>
<td>$0</td>
</tr>
<tr>
<td>Cornell University</td>
<td>$113,422</td>
<td>$107,260</td>
<td>$6,163</td>
<td>$0</td>
</tr>
<tr>
<td>University of Wisconsin-Madison</td>
<td>$105,998</td>
<td>$95,297</td>
<td>$9,641</td>
<td>$1,059</td>
</tr>
<tr>
<td>University of California-Berkeley</td>
<td>$105,171</td>
<td>$98,476</td>
<td>$6,695</td>
<td>$0</td>
</tr>
<tr>
<td>Lockheed Martin Corporation</td>
<td>$96,964</td>
<td>$96,500</td>
<td>$0</td>
<td>$464</td>
</tr>
<tr>
<td>Columbia University</td>
<td>$94,996</td>
<td>$86,909</td>
<td>$8,087</td>
<td>$0</td>
</tr>
<tr>
<td>California Institute of Technology</td>
<td>$93,968</td>
<td>$73,008</td>
<td>$0</td>
<td>$20,960</td>
</tr>
<tr>
<td>University of Texas at Austin</td>
<td>$91,545</td>
<td>$86,021</td>
<td>$5,524</td>
<td>$0</td>
</tr>
<tr>
<td>University of Colorado at Boulder</td>
<td>$86,965</td>
<td>$77,394</td>
<td>$9,571</td>
<td>$0</td>
</tr>
<tr>
<td>Massachusetts Institute of Technology</td>
<td>$83,086</td>
<td>$79,266</td>
<td>$3,820</td>
<td>$0</td>
</tr>
<tr>
<td>University of Minnesota-Twin Cities</td>
<td>$82,803</td>
<td>$75,142</td>
<td>$7,661</td>
<td>$0</td>
</tr>
<tr>
<td>University of Michigan Ann Arbor</td>
<td>$80,255</td>
<td>$67,438</td>
<td>$12,817</td>
<td>$0</td>
</tr>
</tbody>
</table>

The number of U.S. patents issued to the University of Illinois at Urbana-Champaign increased significantly since FY 2009.
Royalties earned at the University of Illinois at Urbana-Champaign have been growing since FY 2008.
In 2013 the number of new companies started based on technology developed at the University of Illinois at Urbana-Champaign is consistent with previous years.
Expand the research enterprise in quality, impact, and visibility:

• Support, encourage and promote internal connections among researchers and external communications about our accomplishments

• Support and streamline administrative processes that support our research enterprise

• Create opportunities for diverse populations and perspectives in the research enterprise

• Improve customer service for our faculty researchers
Action Items (All In Progress)

Campus-wide Research Initiatives

• Develop a leadership structure for campus initiatives
  o Formation of new virtual institutes
  o Formation of new interdisciplinary working groups and reconfiguration of existing campus-wide research committees

• Create a formal network of research deans
  o Regular meetings to improve coordination and communication

• Implement Researcher Profiles Software
  o Evaluation committee formed; implementing in Fall Semester

• Create a proposal development office
  o Planning underway, director search to start this summer
Biomedical Research

Notable Projects Include:

- Center for Nutrition, Learning, and Memory (multi-million center funded by Abbott)
- Center for Macromolecular Modeling and Bioinformatics ($10 million for 5 years)
- Children’s Environmental Health and Disease Prevention Research Center ($8 million for 5 years)
- Strategic Healthcare IT Advanced Research Projects on Security ($15 million for 4 years)
- Enzyme Function Initiative ($26 million for 5 years)
LAUNCH of the $208 million, NSF-funded Blue Waters petascale super computer and the early science results from the system.

THE SECOND ROUND of funding in the multi-year, multi-million dollar Abbott Center for Nutrition, Learning, and Memory, the first interdisciplinary cognition and nutrition research center in the country.

A GRANT of $25 million for RIPE: Realizing Increased Photosynthetic Efficiency (from the Bill and Melinda Gates Foundation) to benefit farmers around the world by increasing productivity of staple food crops.

A GIFT of $100 million (from the Grainger Foundation) to build the Grainger Engineering Breakthroughs Initiative.

DISCOVERIES in the structure of the HIV capsid, “flexible” electronics, self-powered “bio-bots,” and a tool to improve the outcome of breast cancer surgery, among many other innovations.
Questions?