7. FY 2014 UNC Research and Sponsored Programs Report to the President

Christopher Brown

Situation: The Vice President for Research and Graduate Education provides an annual report to the President on the aggregated research activity of the UNC system.

Background: Data on research and sponsored programs from the most recent complete fiscal year are collected, reviewed by the campuses, and condensed into a report. This report is for FY 2014 (July 1, 2013 – June 30, 2014).

Assessment: UNC institutions reported $1,368,018,636 in new awards in FY14. When adjusted to take into account subawards made between UNC institutions, the FY14 total was $1,343,424,603. This represents a 9% increase over FY13 and a 34% increase over FY05. This is impressive considering that AAAS reports the amount of federal support for basic research, which accounts for the bulk of external awards, increased by 7% between FY13 and FY14 and 17% between FY05 and FY14. Private industry, foundations, state/local government and other educational/research organizations also sponsor UNC research and scholarship.

Faculty, staff, students, and administrators work diligently to make this happen. As one measure of this, the number of proposals submitted in FY 14 (11,747) is the largest to date.

Data on select commercial indicators and activities spawned from UNC research show increases over the past three years in US patents issued, executed licenses/options, start-ups, and license income.

Action: This is for Information Only
FY2014
University of North Carolina
Research and Sponsored Programs
Report to the President
Friends of the University of North Carolina,

Once again, the University can take pride in an excellent year for research and sponsored programs. This annual report provides a brief snapshot the activity for FY14. Despite a challenging funding landscape, our institutions remained competitive for external support.

In total, UNC institutions reported $1,368,018,636 in new awards in FY14. When adjusted to take into account subawards made between UNC institutions, the FY14 total was $1,343,424,603 (page three). This represents a 9% increase over FY13 and a 34% increase over FY05 (page four). This is impressive considering that AAAS reports the amount of federal support for basic research, which accounts for the bulk of external awards, increased by 7% between FY13 and FY14 and 17% between FY05 and FY14.

Faculty, staff, students, and administrators work diligently to make this happen. As one measure of this, page five shows that the number of proposals submitted in FY 14 is the largest to date. Page six follows with an overview of the organizations that sponsor these activities across the University.

Data on select commercial indicators and activities spawned from UNC research are found on page seven from the Association of University Technology Managers Annual US Licensing Survey and institutional self-reports. The link between the University’s success in research and sponsored programs and our potential for commercialization and economic impact is clear. Both sets of activities must be cultivated to keep our state and nation innovating and prospering.

I invite you to review the full report and contact me or the Research and Graduate Education Office with any questions.

Sincerely,

Christopher S. Brown
Vice President for Research and Graduate Education
At $1.34 billion, the adjusted total showed a 9% increase in adjusted total from the previous fiscal year. Adjusted award dollars exclude any subawards made between UNC institutions.

Adjusted annual totals increased in FY14 for twelve institutions (ECU, NCA&T, NCSU, UNC-CH, UNCC, ASU, NCCU, UNCP, WCU, ECSU, NCSSM, and UNCSA) and UNC General Administration.

Sponsored award dollars grew in several different sectors in FY14 (see p. 6). Federal dollars were up 8%, and industry sponsored programs rose by 21%. UNC institutions also saw increased sponsored program dollars from local government, education and research organizations, state government, and non-profit sectors.

\[ ^1 \text{UNC fiscal year runs July 1 through June 30.} \]
\[ ^2 \text{Not all current fiscal year submissions are funded in the same fiscal year. Additionally, FY Total Proposed Dollars includes some non-competing renewal proposals (primarily associated with NIH funding).} \]
\[ ^3 \text{Some current fiscal year awards are prior fiscal year submissions.} \]
In the last 17 years, UNC sponsored program activity has more than doubled, even without the recent boost from the American Recovery and Reinvestment Act (ARRA or “stimulus,” shown in green). A significant factor in this sustained growth is the wise use of facilities and administrative (F&A) receipts to help institutions cover the costs of supporting the research enterprise. UNC institutions utilize F&A receipts to, among other things, maintain and expand research infrastructure; invest in new research through matching funds, seed grants and “start up” packages for new faculty; support library holdings; and ensure compliance with federal and other regulations.

Note: To avoid double-counting, inter-institutional subagreements are not included in Annual Awards.
In FY14, the number of proposals submitted exceeded the previous year as well as the high water mark seen during the American Recovery and Reinvestment Act ("stimulus") period. The growth in proposal submissions over nearly a decade underscores the important contributions made by campus research faculty, administrators and staff.

Note: Inter-institutional subagreements require staff effort and are included in Annual Proposals.
FY14 Sponsors

United States Federal Government
- National Aeronautics and Space Administration: $5,151,264
- National Foundation on the Arts and Humanities: $582,804
- National Science Foundation: $121,609,593
- Small Business Administration: $3,478,242
- U. S. Department of Agriculture: $43,958,105
- U. S. Department of Commerce: $11,281,477
- U. S. Department of Defense: $37,636,451
- U. S. Department of Education: $80,115,699
- U. S. Department of Energy: $21,735,947
- U. S. Department of Health and Human Services (Non-NIH): $45,628,380
- U. S. DHHS National Institutes of Health: $465,939,845
- U. S. Department of Housing and Urban Development: $825,054
- U. S. Department of the Interior: $4,897,002
- U. S. Department of Justice: $1,176,473
- U. S. Department of Labor: $1,566,788
- U. S. Department of State: $3,091,631
- U. S. Department of Transportation: $4,697,798
- U. S. Department of Veterans Affairs: $193,676
- U. S. Environmental Protection Agency: $7,427,416
- U. S. International Development Cooperation Agency: $21,716,285
- Corporation for National and Community Service: $1,193,190
- All Other Federal Agencies: $11,511,545
- Confidential (NCSU only): $8,852,551
- Total Awards from United States Federal Government: $914,196,281

State Government
- State of North Carolina: $95,919,942
- All other states: $1,038,883
- Total Awards from State Government: $96,958,824

Local Government
- NC Local Government: $5,604,320
- All other local government: $252,646
- Total Awards from Local Government: $5,856,965

Foundations
- NC Foundations: $16,758,017
- All other foundations: $47,808,304
- Total Awards from Foundations: $64,566,321

Commerce (Business and Industry)
- NC Business and Industry: $21,750,965
- All other business and industry: $75,432,722
- Total Awards from Commerce (Business and Industry): $97,183,687

Associations
- NC Associations: $1,972,757
- All other associations: $16,416,651
- Total Awards from Associations: $18,389,409

Educational/Research Institutions
- NC Institutions: $37,371,274
- All other institutions: $82,523,636
- Total Awards from Educational/Research Institutions: $119,894,909

Not-for-Profit Organizations
- NC Not-for-profit organizations: $18,461,528
- All other not-for-profit organizations: $25,223,949
- Total Awards from Not-for-Profit Organizations: $43,685,477

Other Sponsors
- Other NC sponsors: $304,354
- All other US sponsors: $1,983,933
- Foreign Sponsors: $426,149
- All other/uncodable: $4,571,328
- Total Awards from Other Sponsors: $7,285,764

Total Awards from Other Sponsors: $1,368,017,036
Adjusted Total: $1,343,423,603
UNCG 11 1 5 1 75,617.37 $ 51,271.18 $ 75,617.37 $ 15,927,896.60

All other Institutions (FSU/NCCU/UNCW)

<table>
<thead>
<tr>
<th>Invention Disclosures</th>
<th>US Patents Issued</th>
<th>Licenses or Options Executed</th>
<th>Start-ups</th>
<th>License Income</th>
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<td>91</td>
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FY14 Commercial Activity

UNC institutions possess a wide array of existing and emerging strengths in research and related commercial activities. Some institutions are developing inputs and activities (e.g. strategic faculty hires, sponsored awards, entrepreneurship programs) while others are focused on realizing greater outputs, outcomes or impacts from the assets already in place.¹

Invention disclosures are one output and a first step in a pathway towards the realization of commercial applications from university discoveries. Outcomes can include, but are not limited to, patents issued, licenses and start-ups. Income from licensing university-generated technologies is another output that has increased steadily over the past three years.

The Association of University Technology Managers (AUTM) Annual Licensing Survey is a leading source of information on university commercial activity and indicators of potential in this area. With occasional exception, UNC’s doctoral granting institutions report their activities in the annual AUTM survey. Data from all other institutions are self-reported.