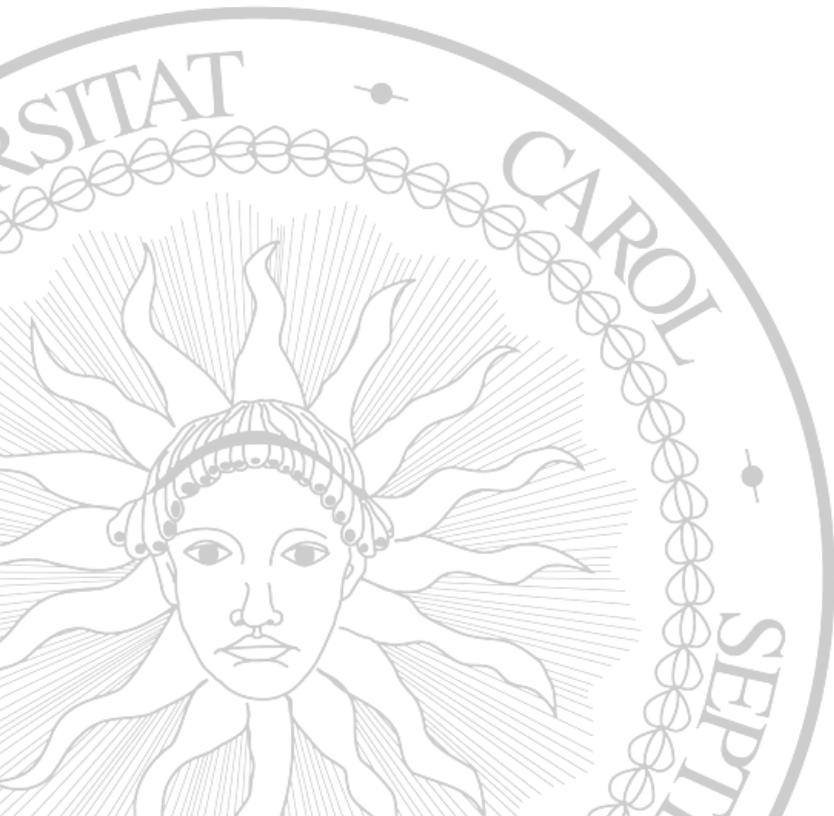


# FY2010

University of North Carolina  
Research and Sponsored Programs  
Report to the President



April 7, 2011

Friends of the University of North Carolina,

The FY2010 Research and Sponsored Programs Report to the President details another record year for the University of North Carolina. Despite the challenges of the current fiscal climate, our institutions remain extremely competitive for external funding, bringing in a total of \$1,402,687,618 in new awards in FY2010. Even after adjusting for activity related to the American Recovery and Reinvestment Act (ARRA), commonly referred to as the Stimulus Bill, the UNC portfolio of new external funds once again grew in FY2010. The adjusted total of \$1,174,107,023 in awards represents an increase over last fiscal year. This level of continued growth demonstrates the quality and commitment of our faculty and staff.

Some sponsored awards provide UNC institutions with a portion of the costs of conducting research. The Facilities and Administrative (F&A) receipts, when applied wisely to research costs, can result in the kind of growth seen on page four.

ARRA has increased federal funds available for university research to unprecedented levels. UNC constituent universities aggressively pursued these funds, collectively applying for over \$1.29 billion and receiving over \$220 million in ARRA funds to date. As seen on page five, the extraordinary efforts to apply for these one-time ARRA funds since FY09 were above and beyond the growing number of annual proposals our campuses submitted.

Award totals increased in FY10 for eleven of our universities. Of particular note are UNC Chapel Hill's \$803 million in new awards - a record high - and NC State University's growth of 29% over FY09's level of external funding. Page seven of this report highlights other UNC institutions and how their ARRA and external funding is impacting economic development across the state.



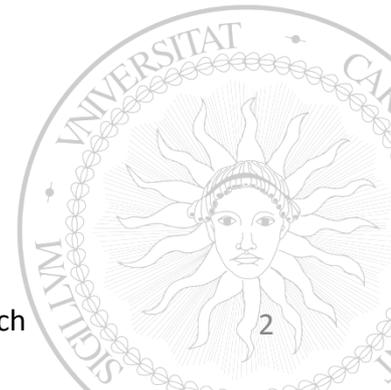
Finally, you may have noticed a new report format. We hope that this structure continues to provide critical datasets while also highlighting accomplishments and initiatives that clearly demonstrate the impact of University of North Carolina research and sponsored programs.

I invite you to review the full report, and feel free to contact the Office of Research and Sponsored Programs with any questions. I look forward to another record year.

Sincerely,

A handwritten signature in black ink, appearing to read "Steven Leath". The signature is fluid and cursive, with a long, sweeping underline.

Steven Leath  
Vice President for Research



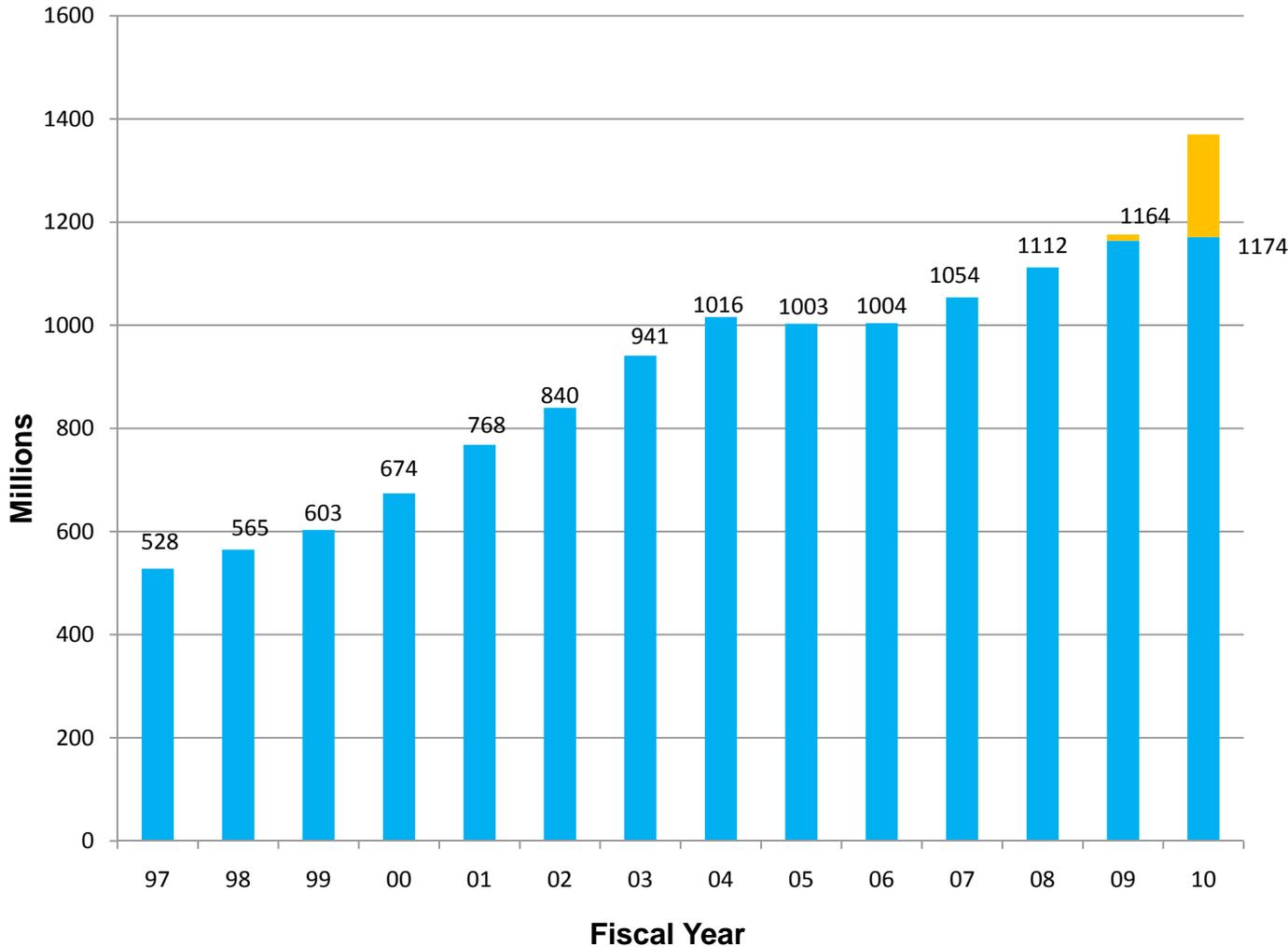
**The University of North Carolina  
Sponsored Program Activity  
Fiscal Year 2010  
(July 1, 2009 – June 30, 2010)**

	Number Proposals	Number Awards	FY10 Total Award Dollars	FY09 Total Award Dollars	% Change in Award Dollars from FY09	FY10 Inter-institutional Awards	FY10 ARRA Awards	Adjusted Total Award Dollars (minus Inter-institutional and ARRA awards)
<b>Doctoral Granting Institutions</b>								
NCSU	3423	2066	\$ 265,860,128	\$ 206,143,934	29%	\$ 5,911,883	\$ 28,390,812	\$ 231,557,433
UNCCH	4628	4547	\$ 803,552,594	\$ 716,242,666	12%	\$ 5,242,443	\$ 126,036,558	\$ 672,273,593
ECU	712	462	\$ 48,863,240	\$ 40,760,962	20%	\$ 6,288,324	\$ 5,185,623	\$ 37,389,293
NCA&TSU	413	235	\$ 60,140,464	\$ 57,704,040	4%	\$ 2,483,671	\$ 3,062,765	\$ 54,594,028
UNCC	729	386	\$ 34,550,701	\$ 36,581,079	-6%	\$ 1,942,206	\$ 6,488,590	\$ 26,119,905
UNCG	484	284	\$ 47,714,585	\$ 35,375,420	35%	\$ 1,123,691	\$ 8,506,255	\$ 38,084,639
<b>Masters Institutions</b>								
ASU	298	218	\$ 17,533,182	\$ 14,576,504	20%	\$ 862,142	\$ 867,256	\$ 15,803,784
FSU	52	39	\$ 12,131,094	\$ 12,484,562	-3%	\$ 766,480	\$ 1,194,493	\$ 10,170,121
NCCU	135	88	\$ 20,695,159	\$ 20,171,627	3%	\$ 609,234	\$ 924,094	\$ 19,161,831
UNCP	56	45	\$ 4,422,460	\$ 4,406,670	0%	\$ 511,469	\$ 519,981	\$ 3,391,010
UNCW	235	209	\$ 36,260,057	\$ 19,394,782	87%	\$ 1,396,852	\$ 16,265,304	\$ 18,597,901
WCU	86	67	\$ 4,575,904	\$ 5,790,853	-21%	\$ 755,891	\$ 21,850	\$ 3,798,163
WSSU	102	69	\$ 15,784,791	\$ 12,060,947	31%	\$ 266,945	\$ 366,544	\$ 15,151,302
<b>Baccalaureate Institutions</b>								
ECSU	47	57	\$ 15,887,098	\$ 9,572,683	66%	\$ 113,978	\$ 500,000	\$ 15,273,120
UNCA	35	27	\$ 2,909,288	\$ 1,990,980	46%	\$ 864,493	\$ 1,100,768	\$ 944,027
<b>Special Focus Institutions</b>								
NCSSM	32	17	\$ 401,004	\$ 682,938	-41%	\$ 10,000	\$ -	\$ 391,004
UNCSA	4	4	\$ 68,500	\$ -	-	\$ -	\$ 0	\$ 68,500
<b>System Office</b>								
UNC GA	23	19	\$ 11,337,370	\$ 7,275,240	56%	\$ -	\$ -	\$ 11,337,370
<b>TOTALS</b>	<b>11494</b>	<b>8839</b>	<b>\$ 1,402,687,618</b>	<b>\$ 1,201,215,887</b>	<b>17%</b>	<b>\$ 29,149,702</b>	<b>\$ 199,430,893</b>	<b>\$ 1,174,107,023</b>

**Steady Progress**

In FY10, UNC institutions once again demonstrated their competitiveness for sponsored programs. Even without considering the ARRA (Stimulus Bill) funding, the annual total for sponsored programs grew by 1% over the previous fiscal year.

## Sponsored Programs from FY97 to FY10

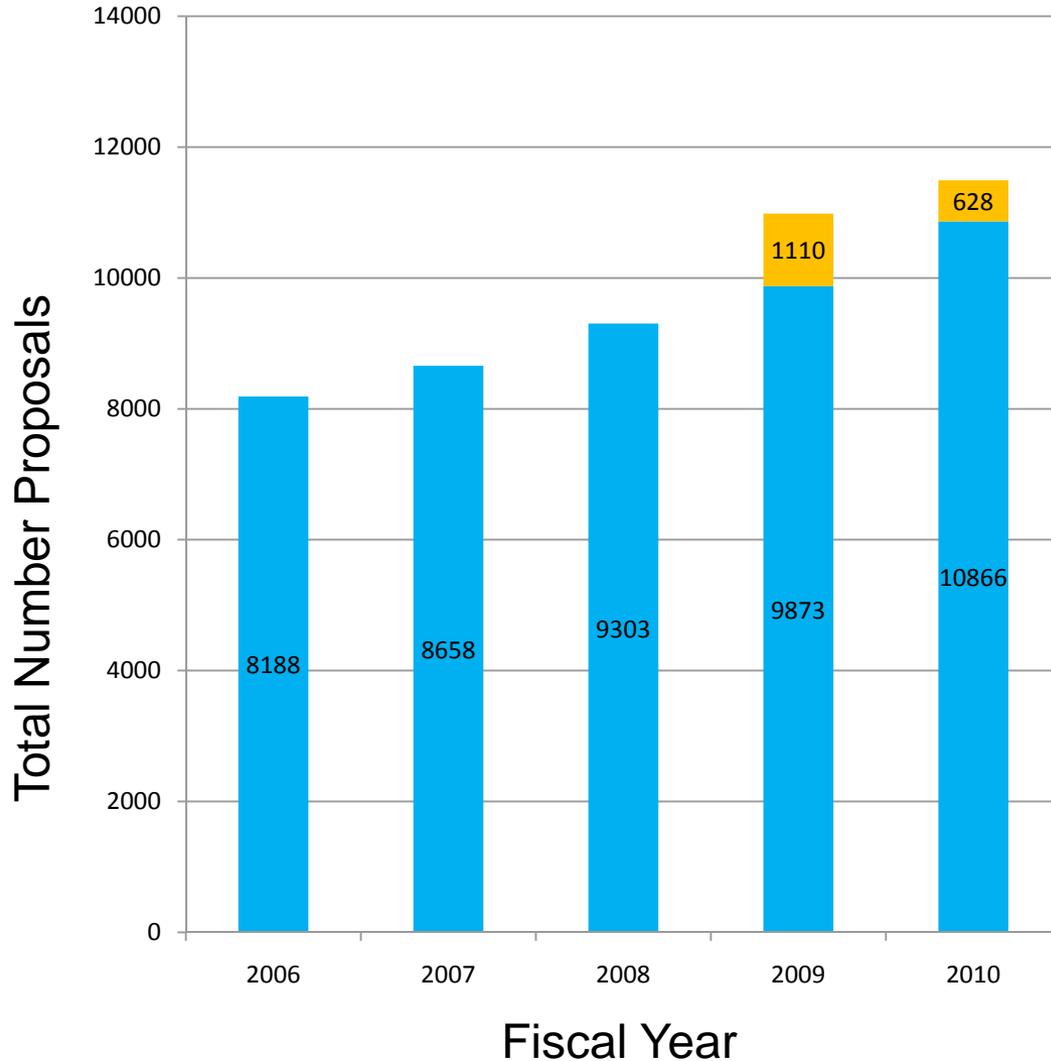


In the last 14 years, UNC sponsored program activity has doubled, even without the recent boost from ARRA funds (shown in gold). A significant factor in this rapid growth has been the ability of UNC institutions since FY99 to retain the facilities and administrative (F&A) receipts that are awarded to help institutions cover the costs of conducting research. UNC institutions utilize F&A receipts to, among other things, maintain and expand research infrastructure like equipment; 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.

■ ARRA  
■ Annual Awards



# The University of North Carolina Trends in Proposal Submissions



## Growth in Proposal Submissions

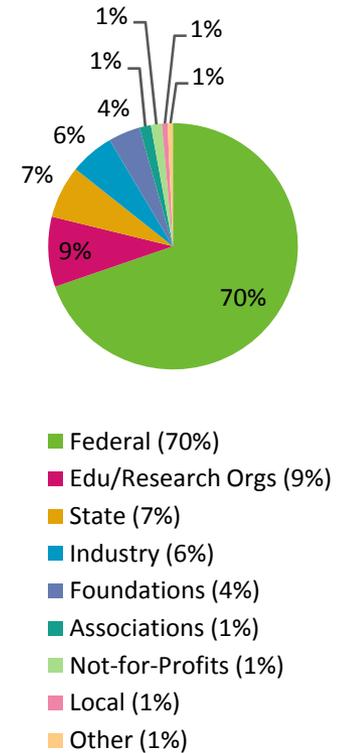
At a time when all UNC institutions are doing more with less, the role of our campus research administrators and staff has never been more critical. Over the past five fiscal years, the number of annual proposal submissions increased by 25% across all UNC campuses. This percentage increase does not account for the additional effort required of our faculty and staff to submit ARRA proposals in 2009-2010 and to administer those that were awarded.

- ARRA Proposals
- Annual Proposals



# The University of North Carolina Fiscal Year 2010 Sponsors

United States Federal Government		Foundations	
National Aeronautics and Space Administration	\$ 9,047,533	NC Foundations	\$ 18,013,902
National Foundation on the Arts and Humanities	\$ 552,040	All other foundations	\$ 39,764,077
National Historical Publications and Records Commission	\$ -	<b>Total Awards from Foundations</b>	<b>\$ 57,777,980</b>
National Science Foundation	\$ 128,949,400	Commerce (Business and Industry)	
Small Business Administration	\$ 4,000,814	NC Business and Industry	\$ 9,157,439
U. S. Department of Agriculture	\$ 39,222,493	All other business and industry	\$ 71,882,965
U. S. Department of Commerce	\$ 31,618,388	<b>Total Awards from Commerce (Business and Industry)</b>	<b>\$ 81,040,404</b>
U. S. Department of Defense	\$ 30,756,178	Associations	
U. S. Department of Education	\$ 90,315,373	NC Associations	\$ 1,750,888
U. S. Department of Energy	\$ 29,389,572	All other associations	\$ 19,042,210
U. S. Department of Health and Human Services (Non-NIH)	\$ 60,269,850	<b>Total Awards from Associations</b>	<b>\$ 20,793,098</b>
U. S. DHHS National Institutes of Health	\$ 484,695,961	Educational/Research Institutions	
U. S. Department of Homeland Security	\$ 5,071,681	NC Institutions	\$ 49,352,113
U. S. Department of Housing and Urban Development	\$ 1,576,151	All other institutions	\$ 79,849,459
U. S. Department of the Interior	\$ 5,302,076	<b>Total Awards from Educational/Research Institutions</b>	<b>\$ 129,201,571</b>
U. S. Department of Justice	\$ 2,672,143	Not-for-Profit Organizations	
U. S. Department of Labor	\$ -	NC Not-for-profit organizations	\$ 5,196,948
U. S. Department of State	\$ 500,031	All other not-for-profit organizations	\$ 14,445,033
U. S. Department of Transportation	\$ 4,939,589	<b>Total Awards from Not-for-Profit Organizations</b>	<b>\$ 19,641,982</b>
U. S. Department of the Treasury	\$ -	Other Sponsors	
U. S. Department of Veterans Affairs	\$ 469,311	Other NC sponsors	\$ 2,502,037
U. S. Environmental Protection Agency	\$ 7,790,513	All other US sponsors	\$ 3,617,778
U. S. International Development Cooperation Agency	\$ 33,812,901	Foreign Sponsors	\$ 2,540,810
All Other Federal Agencies	\$ 4,819,014	All other/uncodable	\$ 861,081
Corporation for National and Community Service	\$ 1,322,327	<b>Total Awards from Other Sponsors</b>	<b>\$ 9,521,706</b>
<b>Total Awards from Federal Government</b>	<b>\$ 977,093,340</b>		
State Government			
State of North Carolina	\$ 95,111,684		
All other states	\$ 1,874,645		
<b>Total Awards from State Government</b>	<b>\$ 96,986,329</b>		
Local Government			
NC Local Government	\$ 9,436,559	<b>UNC TOTAL</b>	<b>\$ 1,402,687,618</b>
All other local government	\$ 1,194,649	Interinstitutional Subagreements	\$ (29,149,702)
<b>Total Awards from Local Government</b>	<b>\$ 10,631,208</b>	FY10 ARRA Awards	\$ (199,430,893)
		<b>Adjusted UNC Total</b>	<b>\$ 1,174,107,023</b>



Note: The graphic represents percentages after subtracting inter-institutional subagreements.



# The University of North Carolina Fiscal Year 2010 Highlights

Research and sponsored programs at all UNC institutions contribute to the economic vitality of their regions and support important industry sectors in the state, such as marine sciences and aviation and aerospace. For this reason, care is taken to support and develop the research enterprise at each UNC campus, some of which are highlighted here.

**Award:** MARBIONC Building: Economic Development  
**Recipient:** UNC Wilmington (Dr. Dan Baden, PI)  
**Sponsor:** National Institute of Standards and Technology (NIST)  
**Amount:** \$14,979,888.00

UNC Wilmington received the single largest ARRA award to a UNC institution in FY10. The NIST award will support the building of a facility to house MARBIONC. The mission of MARBIONC is to “stimulate economic development in North Carolina through the discovery, development and marketing of new products and technologies derived from living organisms found in the sea.”



**Award:** Center for Aviation Safety  
**Recipient:** NC A&T State University (Dr. Kunigal Shivakumar, PI)  
**Sponsor:** National Aeronautics and Space Administration (NASA)  
**Amount:** \$1,000,000 each year for five years

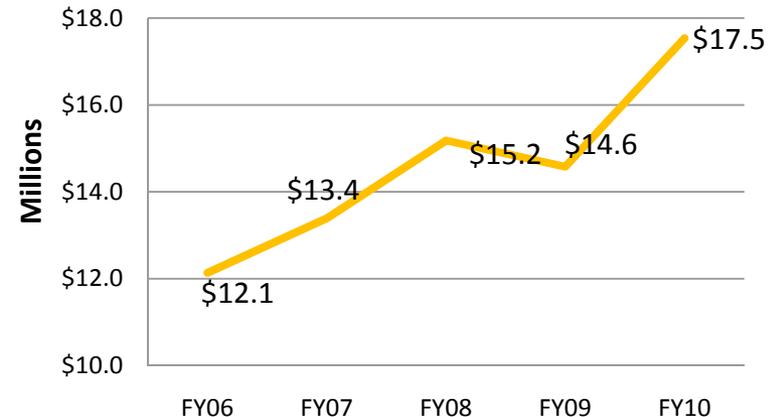
The Center for Aviation Safety (CAS) at NC A&T State University builds off of their historic strengths in advanced composite materials while providing a space for interdisciplinary collaboration around fundamental problems and challenges in aviation safety. CAS will focus on the development of new materials, models, sensors, detection and management tools, and technologies for safe operation of aviation systems. The Center will also provide a world-class research and educational experience for NC A&T undergraduate and graduate students.

## Spotlight: Appalachian STATE UNIVERSITY

Appalachian State University is enjoying an upward trend in research that will position the campus for continuous growth and competitiveness in the future. Since FY08, ASU's federal funding has more than doubled, with support from the National Science Foundation growing by over 350%. ASU's research activities are diverse but strongest in areas of education, physical sciences, biological and biomedical sciences, and social services.

See other campus trend charts like the one below at <http://www.northcarolina.edu/research/campus/>

**Appalachian State University  
5 Year Trend  
Total Sponsored Programs Awards**



# The University of North Carolina

## Select Initiatives in Research and Sponsored Programs

### REACH NC

In FY2010, UNC General Administration began working with UNC Chapel Hill, NC State University, and the Renaissance Computing Institute (RENCI) to develop a searchable portal of faculty expertise. At the time of this report, funding has been secured to expand REACH NC to include all UNC institutions. The portal will allow anyone to search on expertise profiles built from publications, sponsored programs, courses, and intellectual property.



### Innovation Development and Transfer

In response to UNC Tomorrow, all UNC institutions embarked upon a yearlong innovation initiative with IBM in 2010. Campuses focused on identifying areas of research strength and commercial potential, on systems and programs to support entrepreneurial individuals, and on novel, efficient technology development processes. Five campuses serves as pilots, taking on comprehensive change. These campuses were highlighted at the 11<sup>th</sup> meeting of the University-Industry Demonstration Partnership (UIDP) that drew an audience of over 120 academic and business leaders to UNC Charlotte in October 2010.



### Electronic Research Administration Initiative

FY10 brought significant progress in the effort to bring UNC campuses onto RAMSeS, an electronic research administration tool developed by UNC Chapel Hill. Work is ongoing to standardize usage and reporting practices and capabilities across the campuses.



### Undergraduate Research

The State of NC Undergraduate Research and Creativity Symposium (SNCURCS, pronounced "Snickers") in November 2009 was a record-setting event at UNC Wilmington. Over 360 students from 45 NC institutions presented their original research and creative works to over 700 attendees.

