WE START COMPANIES THAT CHANGE THE WORLD.

NC State researchers have spun off 100+ companies that have attracted more than $1.5 billion in investment capital. Those companies employ thousands of people throughout North Carolina and across the nation.

- Agile Sciences has developed nontoxic biofilm dispersants that can be used in medical, agricultural and industrial settings.
- Cree is a market-leading innovator of LED lighting and semiconductors for wireless and power applications.
- LaamScience has developed an antimicrobial nanocoating that kills up to 99 percent of viruses when activated by exposure to light.
- WebAssign offers Web-based instructional tools being used by more than 500,000 students at 1,500 institutions.

OUR DISCOVERIES LEAD TO BEAUTIFUL SOLUTIONS.

Our Office of Technology Transfer has helped NC State researchers obtain 795 active U.S. patents and more than 1,500 patents worldwide, with another 234 U.S. patents pending. Licensing agreements on our discoveries have made more than 270 products available to consumers in areas ranging from health care to food production.

- The Bartonella ePCR test detects active infection with Bartonella, the bacterium that causes cat scratch disease.
- The NMR LipoProfile test uses nuclear magnetic resonance to measure blood cholesterol levels.
- SmartFresh technology extends the life of fresh produce by putting the ripening process on hold while produce is packed and shipped. SmartFresh cuts losses for producers while improving quality for consumers.
- Versazyme is a pioneering animal feed enzyme that helps farmers grow bigger, healthier chickens and pigs while providing significant environmental benefits.

WE FORGE PARTNERSHIPS THAT GET WORK DONE.

At NC State, we know that collaboration is key to innovation. That’s why our faculty and researchers regularly collaborate with industry partners to leverage our complementary strengths and accomplish more together than we ever could separately.

- The Center for Innovation Management Studies in the Poole College of Management provides workshops, offers tools and assessments, and conducts and publishes research that helps businesses adopt new technology to increase competitiveness and grow their bottom line.
- The Golden LEAF Biomanufacturing Training and Education Center operates out of the largest facility of its kind in the world to train skilled professionals for the biomanufacturing industry.
- The Nonwovens Institute is a cooperative research venture involving the College of Textiles and more than 60 member companies who collaborate to underwrite research in the field of nonwoven fabrics.
- The Textile Protection and Comfort Center collaborates to develop protective gear for firefighters and other first responders.

WHERE WE LEAD, INDUSTRIES FOLLOW.

Innovative businesses seek out the great minds who push industries to strengthen and evolve. NC State plays a vital role in North Carolina’s economy by attracting industry clusters that locate here, especially in the fields of biomanufacturing, energy and nonwoven textiles.

BIOMANUFACTURING

- Pharmaceutical firm Merck has three shifts a day manufacturing chickenpox vaccine in Durham, N.C.
- Novartis built the world’s first large-scale factory for producing flu vaccine via cell culture (instead of growing vaccine in poultry eggs) in Holly Springs, N.C.
ENERGY
- ABB, on Centennial Campus, develops power and automation technologies that enable utilities and businesses to improve performance while lowering environmental impact.
- Green Energy Corporation, also on Centennial Campus, provides software engineering services and software products to enable the smart grid of the future.

NONWOVEN TEXTILES
- DuPont manufactures Sorona, a corn-derived polymer, at its plant in Kinston, N.C.
- Kimberly Clark, manufacturer of Huggies diapers, has invested $40 million in its plant in Lexington, N.C.

WE GIVE TOP-NOTCH STUDENTS A WORLD-CLASS EDUCATION.
Our innovative approach to education and our high level of research support attract the world’s top faculty to NC State. Our students have the chance to learn from the world’s brightest minds in some of the most advanced laboratories on the planet.

- The Garage is a 2,000-square-foot student entrepreneurial workspace managed by the Entrepreneurship Initiative and sponsored by Red Hat.
- The Institute for Advanced Analytics is home of the nation’s first Master of Science in Analytics program. Over each of the past five years, more than 90 percent of the institute’s graduates have gotten job offers before graduation.
- The Lulu eGames, co-sponsored by the Entrepreneurship Initiative and Lulu.com, is an annual competition for students from all disciplines to develop solutions to real-world challenges.
- The Wall Street Journal named NC State graduates among the top 20 university graduates most desired by recruiters. That’s why 74.3 percent of the 2012 senior class either had a job or were attending graduate/professional school within four months of graduation.

OUR CUTTING-EDGE CAMPUS DRIVES INNOVATION.
NC State’s Centennial Campus, a nationally recognized model for public-private research parks, houses more than 60 corporate, government and nonprofit partners and more than 75 NC State research and academic units in state-of-the-art facilities designed to foster innovation.

- The NSF Nanosystems ERC for Advanced Self-Powered Systems of Integrated Sensors and Technologies (ASSIST), which is creating battery-free, body-powered, wearable health monitoring systems
- The FREEDM Systems Center, the only NSF-funded smart grid research center in the United States
- The Golden LEAF Biomanufacturing Training and Education Center, which operates in the largest biomanufacturing training and education facility in the world
- The Institute for Emerging Issues, which gathers teams to work on complex issues in pursuit of a single goal: ensuring North Carolina’s future competitiveness
- The James B. Hunt Jr. Library, one of the most technologically advanced libraries in the world
- The Nonwovens Institute, one of the largest member-based nonwoven textiles research consortiums in the world
- The only aberration-corrected scanning transmission electron microscope in a research park in North America

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OUR FOCUS ON INNOVATION INFORMS EVERYTHING WE DO.
NC State’s innovation-oriented mindset permeates the entire institution — faculty, students, researchers, staff and every partner we collaborate with. This vibrant atmosphere provides a wealth of opportunities to make discoveries, solve problems and fuel the economy.

- The Chancellor’s Innovation Fund helps NC State researchers do proof-of-concept research and product development to strengthen the commercial potential of their discoveries.
- NC State is the only university in the nation leading two active National Science Foundation Engineering Research Centers (ERCs).

In 2012 Chancellor Randy Woodson launched the Chancellor’s Faculty Excellence Program cluster-hiring initiative, which is adding 38 new faculty members in 12 select fields:
- Bioinformatics
- Data-Driven Science
- Digital Transformation of Education
- Environmental Health Science
- Forensic Sciences
- Genetic Engineering and Society
- Geospatial Analytics
- Global Environmental Change and Human Well-Being Innovation + Design
- Personalized Medicine
- Synthetic and Systems Biology
- Translational Regenerative Medicine

NC State University is dedicated to equality of opportunity. The University does not condone discrimination against students, employees, or applicants in any form. NC State commits itself to positive action to secure equal opportunity regardless of race, color, creed, national origin, religion, sex, age, or disability. In addition, NC State welcomes all persons without regard to sexual orientation.

Updated 2/25/2013