Centennial Campus Update

Chancellor Randy Woodson
March 2, 2018
NC STATE
THINK AND DO
NC State was founded with a purpose: to create economic, societal and intellectual prosperity for the people of North Carolina and the country.

A pre-eminent research enterprise, NC State excels in science, technology, engineering, math, design, the humanities and social sciences, textiles and veterinary medicine.
Centennial Campus: History
1984
Governor James B. Hunt and General Assembly allocate initial 355-acres for Centennial Campus

“Centennial Campus adds a fourth dimension to the trinity of teaching, research, and extension: partnerships with the private sector in pursuit of the public good.” – Governor Hunt

1985
Governor Jim Martin allocates additional 450 acres to NC State

1986-88
76.8 acres purchased from Diocese; 118.9 acres allocated from NCDA to NC State

NC State develops master plan for Centennial Campus
College of Textiles

- Moved to campus in 1991
- 200,000 SF state-of-the-art teaching, research, manufacturing, and collaborative spaces and 68 unique laboratories
- Only college in U.S. devoted entirely to textiles

College of Engineering

- More than 2/3 of College is on Centennial Campus
- Engineering Buildings I, II and III are completed and occupied
- 4th Engineering Building broke ground in 2018
James B. Hunt Jr. Library
- Opened in 2013
- 221,000 SF includes Institute for Emerging Issues and other university centers and institutes
- 100 group study rooms and technology-equipped spaces support learning, research, and collaboration

Golden LEAF Biomanufacturing Training and Education Center (BTEC)
- Operates 2 facilities on Centennial Campus
- Provides education and training to develop skilled professionals for biomanufacturing industry
ABB
- 1st corporate partner (1991)
- Nearly 700 employees on campus
- Has hired more than 250 NC State graduates
- Member of several NC State Centers and Institutes

VF Corporation
- Partnership with College of Textiles and Poole College of Management to offer undergraduate and graduate internships, student projects, competitions, and more
- Industry-leading apparel and textile research
- Executive education opportunities for VF Corporation
Wolf Ridge Apartments
- Silver LEED-certified apartment complex for upper-division and graduate students
- 1,200 beds

North Shore Community
- Non-student townhouse and condominium complex
- Adjacent to Lake Raleigh

The Greens
- Non-student apartment community
- 1 and 2 bedroom apartments
Lonnie C. Poole Golf Course
- Arnold Palmer Signature public course that meets Audubon International qualifications
- Living lab for Professional Golf Management and turfgrass program
- NC State men’s and women’s golf teams

StateView Hotel
- 164 rooms
- Signature restaurant and bar
- Fully-equipped fitness center
- Outdoor pool and reception area overlooking Lake Raleigh
- 10,000+ SF indoor/outdoor meeting/event space
Centennial Campus: Present
Dynamic Public-Private Partnerships

- **Industry**
  - 75+
  - On-campus Partners

- **Government**

- **Non-profit**

Federally-Funded Research

1 of only 2 universities leading 2 NSF Engineering Research Centers

- FREEDM Systems Center: Smart-grid technology
- ASSIST Center: Self-powered health monitors

Partner in 7 of 14 Manufacturing USA Institutes

- More partnerships than any other university in U.S.
- Working to give U.S. manufacturing greater competitive advantages
Partnership with City of Raleigh

• Dorothea Dix Park

• Connecting Main Campus and Centennial Campus (Pullen Road/Bilyeu Street extension)

• Greenway connectivity
Industry Partnerships

**EASTMAN**

- 68 funded projects, 33 NC State co-op students, 32 invention disclosures, 23 presentations / posters, 19 published manuscripts, 10 NC State hires
- Plans to expand work with NC State
- New research collaborations with Poole College of Management and College of Agriculture and Life Sciences
- Partner since 2012

**PENTAIR**

- Actively works with College of Engineering and College of Textiles faculty and students to develop new products
- Partnering with College of Humanities and Social Sciences on app user experience
- Partnering with Nonwovens Institute on plastic fiber layers and micro particles
- Partner since 2011
• Largest industry partner on campus: 725 employees
• Hired 50+ NC State graduates, employs ~20 interns
• Hosts annual hackathon on campus where 100+ students collaborate with LexisNexis employees to solve technology challenges
• Launched User Experience Innovation Studio
• Sponsors faculty research; collaborates with College of Engineering and Poole College of Management
THE ENTREPRENEURIAL SPIRIT IS ROOTED IN CURIOSITY.
THERE IS ALWAYS SOMETHING TO BE LEARNED FROM THE SEEMINGLY UNRELATED.

NC State’s Entrepreneurial Ecosystem
1966: Began at NC State as project to analyze agricultural research, “Statistical Analysis System.”

1976: Founded SAS, providing statistical software packages for wide range of industries

1983: “Born in a lab at NC State”

1987: Founded Cree, producing silicon carbide and develop commercial usages in semiconductors and lighting

2015: Created Wolfspeed, standalone Power and Radio Frequency company. Name acknowledges Cree’s inception at NC State.

NC State-Launched Start-ups
NC State-Launched Start-ups on Centennial Campus Shown
NC State startups add $1.2 billion to state’s economy every year

In past 5 years:
- 1,000+ invention disclosures
- 356 patents issued
- 982 new patents filed
- 728 commercialization agreements
- 57 startups
NC State’s Total Economic Impact

- $6.5 Billion in added state income
- 1.5% of Gross State Product
- 91,505 new jobs
Centennial Campus: Moving Forward
Engineering Building Oval
20th Century Research Campus to 21st Century Innovation District
Centennial Campus: The Next Phase

- Innovation ecosystem intended to create more vibrant and collaborative campus experience
- University mission-driven and NC State-branded
- 32-acre phased mixed use development
Existing Innovation District Examples
Creating Economic, Societal and Intellectual Prosperity

Centennial Campus is NC State's proving ground for collaboration between our students, faculty, and industry and government partners.

These partnerships solve complex global challenges, provide real-world opportunities to our students and faculty, and create jobs and investment for NC and beyond.
Benefits to Students
Benefits to Faculty
Benefits to Industry
Benefits to State of North Carolina
NC STATE
THINK AND DO
THE
EXTRAORDINARY