

NC STATE
UNIVERSITY

2023

Chancellor's Report





From the Chancellor

Everywhere I go these days — meeting students and their parents during move-in, presenting awards to outstanding faculty members, representing NC State with business leaders and government officials — people keep using the same word to talk about our university: transformational.

There's no better way to describe just how far we've come. For instance, in 2023 we achieved our highest-ever ranking from *U.S. News & World Report*. What's more, we climbed an astonishing 32 spots in a six-year period — from No. 92 in 2017 to No. 60 today.

You can literally see transformation in action all across our campus. From Centennial Campus, where the brand-new Fitts-Woolard Hall anchors our engineering programs, to the Brickyard, where the Integrative Sciences Building will foster interdisciplinary innovation upon completion, NC State's built environment is keeping pace with the future.

NC State has also made a transformative impact throughout North Carolina. Last year our Economic Development Partnership helped to secure \$9.8 billion in investments

for our state, resulting in almost 5,000 new jobs. And our alumni have made their own transformative mark on the world (and beyond), with Michael Brennan being named as the director of the National Hurricane Center and Christina Koch being selected to go to the moon with NASA's upcoming Artemis II mission.

If you want to know how we accomplished all this and much more, the answer is simple: It's our people. It's NC State's excellent students, world-leading faculty, outstanding staff, extraordinary alumni, generous donors, innovative partners — in short, it took a Wolfpack. Only our Wolfpack could have transformed this university, and the world around it, so profoundly.

Read on to learn about some of our remarkable transformations over the past year — and our plans to achieve even more.

Randy Woodson, Chancellor



Successful Students, Accomplished Faculty

NC State's transformation begins at our front door, with the new students who choose to call this place home. In August 2023, we welcomed our largest incoming class for the fourth consecutive year. Our new students hail from 96 North Carolina counties, 39 states and 30 countries. The Wolfpack is becoming more diverse as well, with students of color making up over 30% of our population.

Once they get here, our students excel academically. In the past year, 20 graduate students received National Science Foundation Graduate Research Fellowships, 11 graduate students received Fulbright Scholarships and two undergraduates earned Goldwater Scholarships. Our faculty were also awarded for their scholarly pursuits. To name just a few, two Department of History faculty members received National Endowment for the Humanities fellowships, and two additional history faculty members were named National Humanities Center Fellows. Achievements like these demonstrate why NC State is increasingly the university of choice for high-performing students from throughout the state, across the nation and around the world.

Incoming Class Statistics



5,614

students enrolled



39,855

total applicants



30.3%

identify as a
student of color



Meeting Students' Essential Needs

NC State's Pack Essentials program has been setting students up for success since 2017 by helping them meet their most important basic needs, such as food, housing and more. For the first time since its inception, the program now has a physical home, which opened in fall 2023 in North Hall. The new space also houses the Feed the Pack food pantry, which provides free food, hygiene products and other resources for students, faculty and staff in need.

Research Leadership Through Innovation

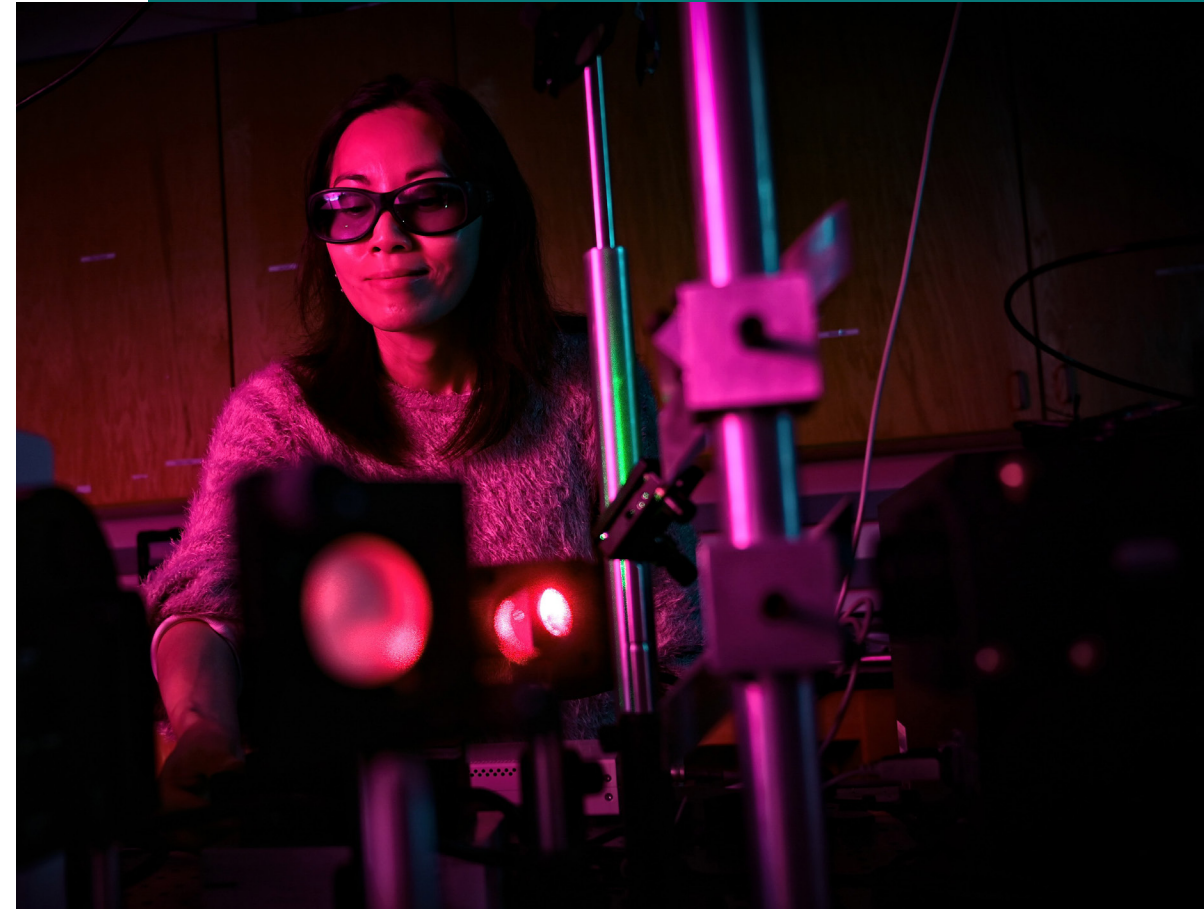
As a leading public research university, NC State believes in the power of creative thinking and meticulous experimentation. As we tackle today's most pressing problems, we're better positioned than ever to turn ideas into solutions: NC State was awarded \$476 million in sponsored research awards for fiscal year 2023 — the highest amount in university history.

Our faculty are recognized in North Carolina and around the country as pioneers, both for their research and their educational innovations. This year Rodolphe Barrangou, the Todd R. Klaenhammer Distinguished Professor in the College of Agriculture and Life Sciences, was inducted into the National Inventors Hall of Fame. His groundbreaking research on the adaptive bacterial immune system known as CRISPR has the potential to change the way we approach genome editing, food safety and science, and antibacterial and antimicrobial production.

Three professors from the colleges of Sciences, Engineering, and Agriculture and Life Sciences were elected as Fellows of the American Association for the Advancement of Science, the world's largest scientific society, for their

work in cheminformatics and statistics, materials physics and chemistry, and plant biology. And three faculty members from the colleges of Sciences, Natural Resources, and Agriculture and Life Sciences received Faculty Early Career Development Program Awards from the National Science Foundation, which recognizes their potential to serve as academic role models and to lead advances in research.

Our faculty are earning accolades as educators, too. Jason Bocarro, a professor in the College of Natural Resources and the Owens-Shelton Distinguished Professor for Leadership with a Global Perspective, received the UNC System's most prestigious teaching award: the UNC Board of Governors Award for Excellence in Teaching.



25

of our faculty are members of the National Academies



\$476 million

in sponsored research awards, the highest in university history



\$500+ million

in research and development expenditures for the 6th consecutive year



#3

in the nation for the share of our research sponsored by private industry (for universities without a medical school)

(Association of University Technology Managers)

The Interdisciplinary Campus of the Future

As NC State continues to expand our community, strengthen our research enterprise and multiply our partnerships, we're preparing our campus to meet the need for state-of-the-art spaces and collaborative places.

Our Physical Master Plan, "Framing the Future," envisions a built environment that centers interdisciplinarity, with welcoming open spaces and flexible multipurpose facilities. Renovations and new developments on North and Central campuses will foster cooperation across departments and colleges — enabling students and researchers to work closely together on finding solutions to global challenges.

In September, we broke ground on the 153,000-square-foot Integrative Sciences Building (ISB). The building is the heart of the Integrative Sciences Initiative (ISI), which unites chemistry, biochemistry, biology, physics, engineering and other fields of the living world. The ISI's research areas focus on studying, synthesizing and screening molecules and molecular pathways relating to human and animal disease. Once construction

is complete in 2026, the \$180 million ISB will provide vital space for this research and other STEM teaching and exploration.

In anticipation of this exciting growth, NC State is updating our electric distribution system. The Power Forward project will ensure the electrical system is safe, reliable, self-healing and futureproof. This multiyear, multiphase project is expected to be completed in 2025. North and Central campuses are home to some of our most historic buildings and infrastructure, and as new development proceeds in these areas, Power Forward will reduce operational risk, enhance reliability, improve safety and solidify our ability to grow.

Whether we're building cutting-edge facilities or energizing the next generation of the Wolfpack, NC State is ensuring a resilient future.

“The Integrative Sciences Initiative will transform teaching, research and discovery in chemistry and other STEM fields at NC State by employing the latest technology, solving major societal challenges and training a new generation of interdisciplinary scientists ready for every future opportunity.”

— Executive Vice Chancellor and Provost Warwick Arden



Guiding principles of the Physical Master Plan:

- › Reinforce culture and place
- › Align facilities with mission
- › Steward campus resources
- › Strengthen campus connections
- › Elevate the campus experience
- › Ensure infrastructure reliability

\$180 million

to be invested in the Integrative Sciences Building

153,000

square feet of classroom and research space in the Integrative Sciences Building



“It is our hope that our gifts to NC State will be our legacy.”

— Jerry Collier '67

Investing in a Vision of the Extraordinary

NC State’s culture of philanthropy keeps getting stronger, as donors increasingly seek opportunities to enrich the student experience, expand educational access and ensure the university attracts top talent. This past year, our efforts benefited from significant commitments, including:

- > The creation of the Goodnight Doctoral Fellowship, through the partnership of Dr. Jim and Mrs. Ann Goodnight and the Goodnight Educational Foundation. The inaugural cohort included 30 Ph.D. students from seven colleges who are focusing on STEM and education.
- > Football coach Dave Doeren and his wife Sara’s gift to establish the OnePack Empowered program, which will support students with executive functioning challenges and those who are neurodivergent.
- > The John M. Belk Endowment’s \$25 million commitment to support the Belk Center for Community College Leadership and Research, housed at the College of Education. Investing in the leaders of North Carolina’s 58 community colleges will, in turn, improve student success.

- > A planned gift from Jerry ‘67 and Pat Collier that represents the largest investment in military-connected students in university history. When fully realized, the gift will support up to 100 undergraduate and graduate scholarships each year.

More than 36,000 NC State donors made annual gifts to areas throughout campus while helping raise awareness for key issues like food insecurity and mental health. NC State received the most gifts in the third annual Pantry Bowl, a friendly philanthropy competition with UNC-Chapel Hill, which supports the food pantries at both schools. And Giving Tuesday efforts saw more than 150 gifts for the Counseling Center and Prevention Services.

NC State’s fifth annual Day of Giving rallied a university record of 16,744 gifts totaling \$34 million, with a 22% increase in donors from 2019. Donors supported more than 700 funds during the event, and alumni from every class between 1953 and 2022 participated.

Philanthropy at NC State is truly donor-driven, with members of the Wolfpack stepping forward to identify challenges, invest in solutions, fuel their passion and power the extraordinary.



55.2%

increase in number of Day of Giving gifts from 2019 to 2022

7,998

first-time donors in FY23

\$4.5 million

in total gifts under \$1,000

\$2 million

awarded in Pack Essentials funds since March 2020

150+

Extraordinary Opportunity Scholarships awarded since spring 2021

A Reputation on the Rise

At NC State, we prepare learners for lifelong success and put our knowledge to work for the betterment for all. The results are reflected in the persistent rise of our reputation both nationally and globally.

Since 2017, our university has soared more than 30 spots up the preeminent Best Colleges list from *U.S. News & World Report*, and we made even more big moves this year. NC State leapt 12 places on the list in 2023 to finish 60th out of more than 1,500 institutions nationwide, while we climbed one notch among other public universities to land at 28th.

Our growing acclaim was also evident in *U.S. News'* rankings of individual colleges and programs. As NC State's College of Engineering rose to 25th in the nation, two of the college's graduate programs achieved top-five status among their peers, with nuclear engineering earning No. 3 and biological and agricultural engineering claiming No. 4. The Poole College of Management's graduate business analytics program jumped seven spots to 20th nationwide, while the College of Sciences' graduate statistics and applied math programs ranked 11th and 18th

respectively among comparable programs. And our College of Veterinary Medicine upheld its long-term status as one of the nation's top five veterinary schools, securing the No. 5 spot.

Our contributions to our state and national economies were also recognized in 2023. Heartland Forward, a think tank focused on fostering economic success for U.S. communities, designated our university No. 7 nationally for technology transfer and commercialization, and No. 2 among public universities — including those with medical schools. Princeton Review rated the university No. 2 for graduate entrepreneurship and No. 4 for undergraduate entrepreneurship in the South.

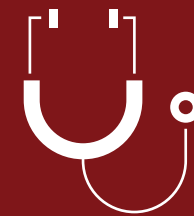
And as a land-grant university for North Carolina, a state shaped by the contributions of its military service members, NC State is especially proud to have earned a top Military Friendly School designation among tier 1 research institutions for supporting military and veteran students. This year, our university rose four spots to No. 2 nationally while also taking second-place honors as a military spouse-friendly tier I institution.



Top 1%

of universities
worldwide

(Center for World
University Rankings)



#5

veterinary medicine
program nationally

(*U.S. News & World Report*)



#2

for technology transfer and
commercialization among
public universities nationally

(Heartland Forward)



#7

best value among public
universities nationally

(*U.S. News & World Report*)



#28

best public university
nationally

(*U.S. News & World Report*)

Partnerships That Make an Impact

NC State has long served as a statewide hub for economic development, helping to create knowledge, technology, companies and jobs — and attracting investment from an array of corporate, government and nonprofit partners.

Our faculty talent, cutting-edge facilities and robust pipeline of skilled graduates are key reasons that companies decide to locate in North Carolina. Few universities are better built to support the innovation of established and emerging STEM industries. This year alone, our Economic Development Partnership worked with statewide partners to help secure capital investments totaling \$9.8 billion that will lead to the creation of 4,835 new jobs.

Those capital investment projects include:

- > Project Darwin
- > Project Hibernian
- > Project Fast

In Raleigh, the apparel giant Under Armour opened a dedicated innovation center on NC State's Centennial Campus as part of an agreement that will contribute more

than \$1 million annually to the research and development of cutting-edge fabrics. The university also deepened existing agreements with partners such as FUJIFILM Diosynth Biotechnologies and the Novo Nordisk Foundation — tackling subjects like innovative manufacturing processes, new methods for carbon dioxide management and sustainable fertilizer production.

NC State continues to be the first choice for many government agencies and federal

initiatives, too. A group of researchers in the Department of Forest Biomaterials was selected by the U.S. Department of Energy to lead a \$10 million public-private research initiative aimed at slashing greenhouse gas emissions in the forest product industry. And NC State was selected as the lead institution of a \$9 million National Science Foundation grant to establish a Secure Software Supply Chain Center, which will strive to reduce the risks of software supply chain security while building a more diverse workforce for the sector.

Project Darwin

Toyota expanded their prior commitment to a new facility in Randolph County with an additional \$2.1 billion investment, bringing the total number of associated new jobs to 2,100.

Project Fast

Kempower, a Finnish company that makes charging stations for electric vehicles, chose Durham County as the site of a new manufacturing facility that will generate \$41 million in investment and 600 new jobs.

Project Hibernian

In September 2022, Wolfspeed announced plans to build the world's largest silicon carbide materials manufacturing facility in Chatham County — a \$5 billion investment that will establish 1,800 high-paying jobs.

“NC State has played an important role in our success. Having access to incredible talent was a game changer.”

— David Morken, founder and CEO, Bandwidth Inc.



\$9.8 billion

in capital investments secured with the support of NC State



14 startups

launched on NC State research in 2023



70+ partners

located on Centennial Campus

Our Alumni Go Above and Beyond

Whether their dream is to start their own business, track hurricanes or take off into space, our alumni make it a reality.

At NC State, they gain the tools, resources and support they need to put big ideas into action. Then they use what they've learned to strengthen communities across the state and the nation, and people are taking note of their excellence. More than 30 NC State alumni — including entrepreneurs, tech leaders and award-winning chefs — were recognized on Business North Carolina's "Power 100" list.



“My time at NC State was one of constant discovery.”

— Christina Koch '01, M.S. '02

From NC State to NASA

Three-time graduate Christina Koch is proof that an NC State education can take you anywhere — even to the far side of the moon. The NASA astronaut spent a record-breaking 328 days in space aboard the International Space Station and participated in the first-ever all-female spacewalk. She'll continue to make history when she becomes the first woman to fly around the moon as part of NASA's Artemis II mission in late 2024.

Tracking Storms, Educating the Public

Michael Brennan, a three-time NC State graduate, was named director of the National Oceanic and Atmospheric Administration's National Hurricane Center in Miami. In his role, Brennan leads the division in tracking and predicting tropical weather systems, and communicating findings to help the public prepare for approaching storms. North Carolina's place as the nation's most meteorologically diverse state that's been affected by climate-change erosions — including hurricanes, tornadoes and coastal flooding — makes the State Climate Office on our Centennial Campus an important point of collaboration for Brennan.



“It is science that impacts lives, which goes right to the core of the university's mission: to better the lives of the people of North Carolina and the nation.”

— Michael Brennan '99, M.S. '01, Ph.D. '05



“We're an example of students who were given a lot of great access to new resources, and through that, we were able to do a lot of good for the community.” — Lindsay Wrege '21

Uplifting the Community Through Coffee

Alumni Michael Evans and Lindsay Wrege started their business, 321 Coffee, by selling coffee off of folding tables on NC State's campus in 2017. With support from NC State's Andrews Launch Accelerator program and Miller Fellowship, they now have four brick-and-mortar locations, with another set to open on campus in early 2024. In April, 321 Coffee and NC State launched a co-branded coffee, Greater Good, which supports NC State scholarships and expands the company's mission to provide meaningful employment for individuals with intellectual and developmental disabilities.

The Top of Our Game

If winning takes talent and repetition takes character, as legendary basketball coach John Wooden said, then NC State athletics had one of the finest overall years in school history, both in competition and in the classroom.

The women's cross-country team, led by three-time National Coach of the Year Laurie Henes and two-time individual champion Katelyn Tuohy, did something no other team in NC State history has ever done: won three NCAA team championships in a row.

The Wolfpack women won the fifth national championship in program history and the seventh team title in athletics history.

Seven other teams finished in the Top 25 of their respective sport's final rankings: wrestling (3), women's and men's swimming and diving (4), women's indoor track and field (6), men's cross-country (11), co-ed rifle (13) and football (23).

Women's cross-country won its eighth Atlantic Coast Conference title, while the women's tennis team won its first-ever ACC title, advancing to the NCAA Championship. Wrestling continued its sustained success with its fifth consecutive title, and men's swimming and diving won for the eighth time in the last nine years.

Sixty student-athletes won 110 All-America honors. Four women were named performers of the year in their respective sports: Tuohy for indoor track, Emily Shepard for gymnastics, Jirah Sidberry in women's indoor field and Diana Shnaider as the women's tennis freshman of the year.

For the second year in a row, NC State won six NCAA individual titles, including three by Tuohy (cross-country, indoor track 5,000 meters and 3,000 meters). Men's swimming and diving won the other three, with individual titles by Will Gallant (1,650 freestyle) and Aiden Hayes (200 butterfly) and a 200-medley relay title.

The Wolfpack also performed at an accelerated rate in the classroom, with a program-high graduation success rate of 92% and a multiyear academic progress rate of 993. In all, our athletes won 43 Academic All-America awards, 206 Academic All-Conference designations, 331 ACC honor roll awards, 395 Dean's List awards and 780 NC State scholar-athlete awards for the fall and spring semesters.



“This is a work-ethic, hands-in-the-dirt school. It’s an agricultural school, it’s a textile school, it’s an engineering school. It was founded by tough people, and that’s what this football team will be.”

— Dave Doeren, head coach, football



NC STATE

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