

State of the Research Enterprise at NC State University

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Vice Chancellor for Research and Innovation

Reflections from My First Four Months

I am a faculty-focused research leader

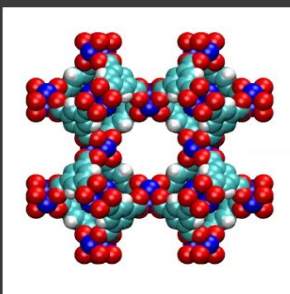
- Previous role was associate vice president for research operations and infrastructure at Georgia Tech
- Professor of chemical and biomolecular engineering
- Was the founding director and lead PI of Georgia Tech's DOE Energy Frontier Research Center and associate dean for research in their college of engineering
- Expertise in adsorption science and porous materials
- B.S. in chemical engineering from Alabama-Huntsville and Ph.D. in chemical engineering from Vanderbilt University
- Grew up in Alabama on the farm where my family still grows sod, wheat, soybeans and other row crops

BY THE NUMBERS

THE WALTON GROUP



- Synthesis and scale up of new porous materials
- CO₂ capture
- Atmospheric water harvesting



30
PhDs
Graduated

21
Postdocs and
Research Scientists

\$36M
External
Research Awards
as Lead PI

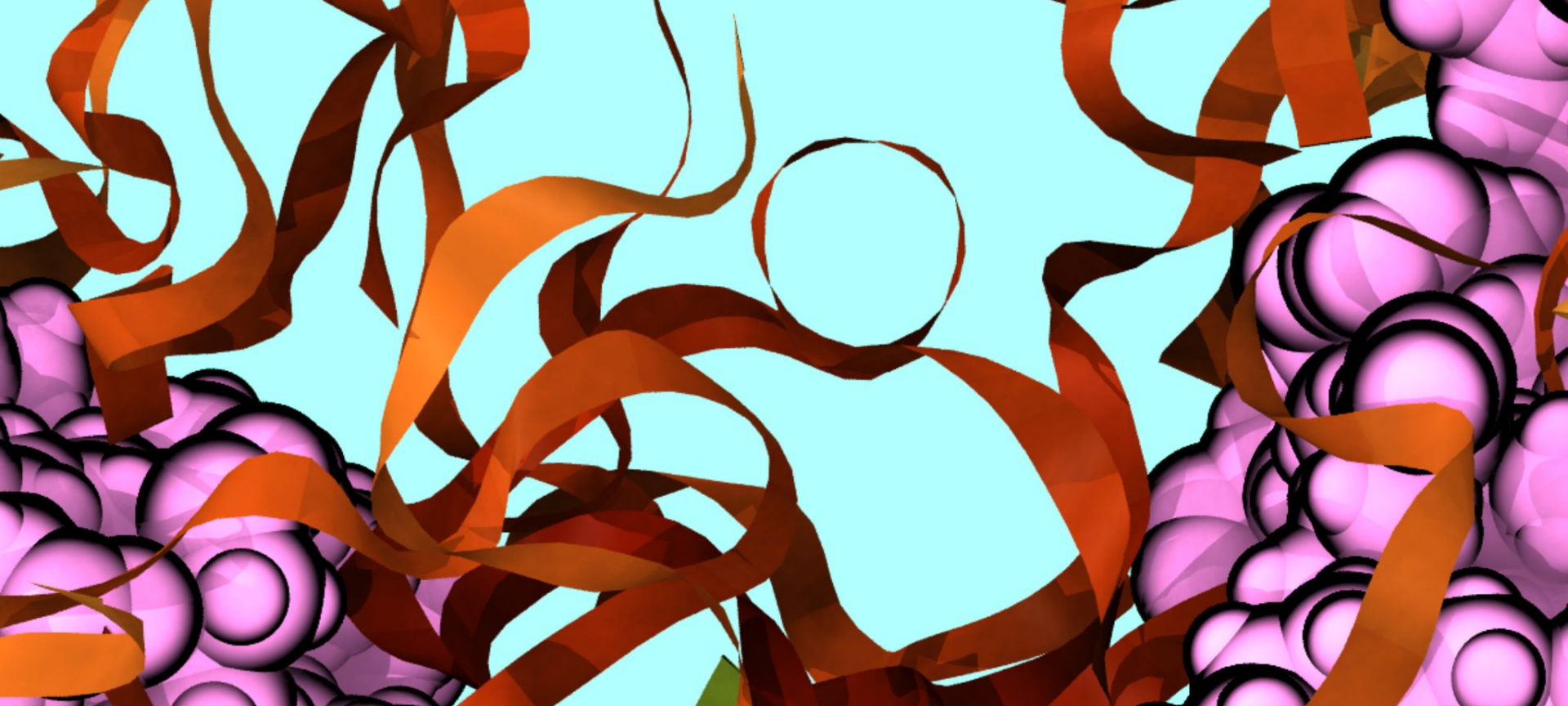
>145
Peer-Reviewed
Publications

65
h-index

3
Start-up
Companies

@walton_lab





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Improving Research Support

Scaling Research Infrastructure to Support Future Growth

- **Open letter and RLA memo Dec 2023/early 2024**
 - Identified 8 major concerns including post-award, HR, pre-award, institutional support, procurement
- **RASS Task Forces: Sponsored Programs; Research Implementation; Culture, Collaboration and Communication**
 - 9 pilot projects selected

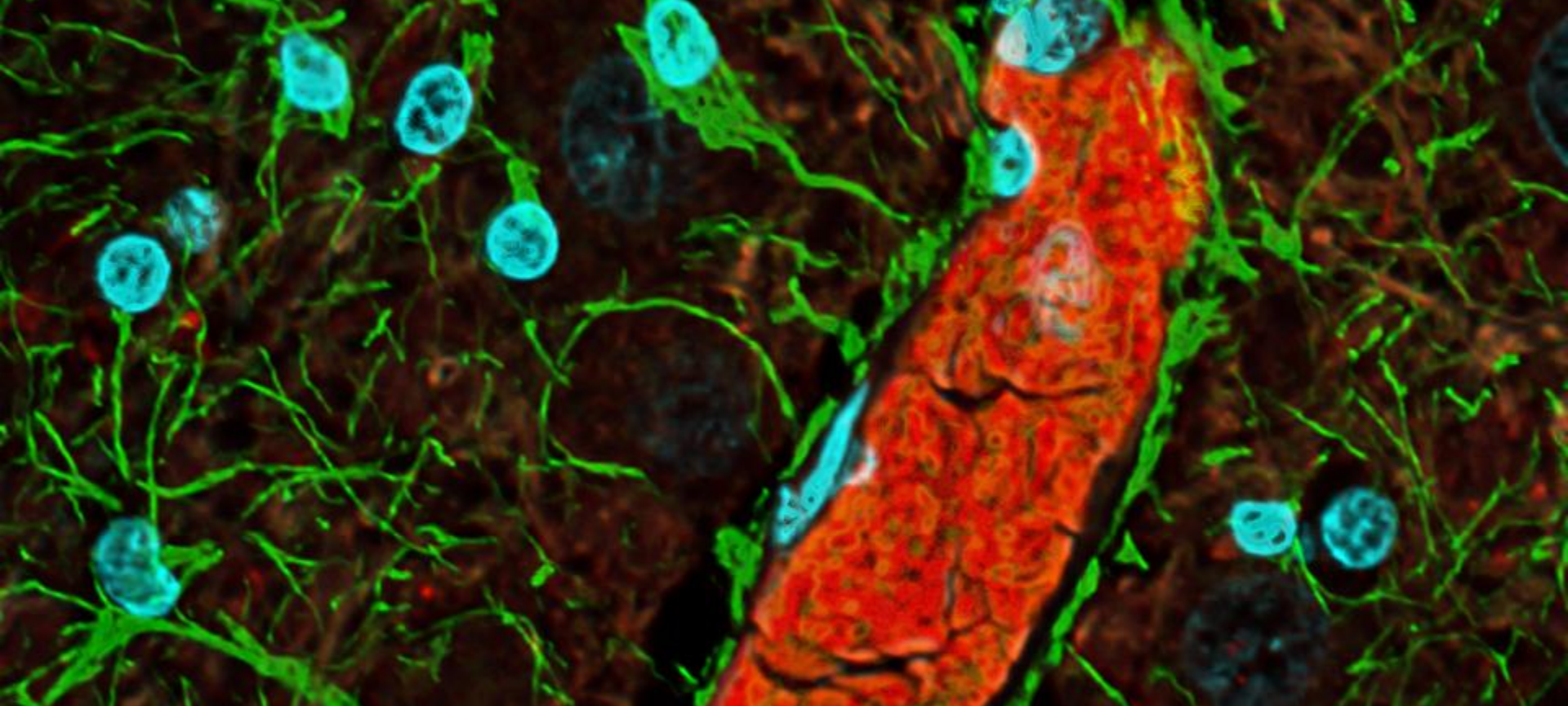
NC State has engaged Huron Consulting Services to strategically assess research infrastructure *across campus*

This assessment will clarify our research infrastructure needs and provide actionable recommendations to support sustainable growth, operational excellence and enhanced competitiveness in the national research landscape.

The assessment will:

- Focus on evaluating governance, organizational structure, pre/post awards, staffing, and commercialization activities
- Ensure NC State is positioned for continued excellence and scalability in research operations
- Benchmark against peer and aspirational institutions to identify opportunities for improved efficiencies

Timeline: Work begins soon and is expected to be completed this academic year.



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Research Activity

Research Activity To Date

	This Fiscal Year to Date	Last Fiscal Year to Date	5-Year Average
Award Amount	\$208,184,416	\$254,038,195	\$215,133,650
Number of Awards	774	880	799
Proposal Amount	\$533,959,583	\$564,115,360	\$630,226,399
Number of Proposals	1,076	1,184	1,142

As of 10/23/2025

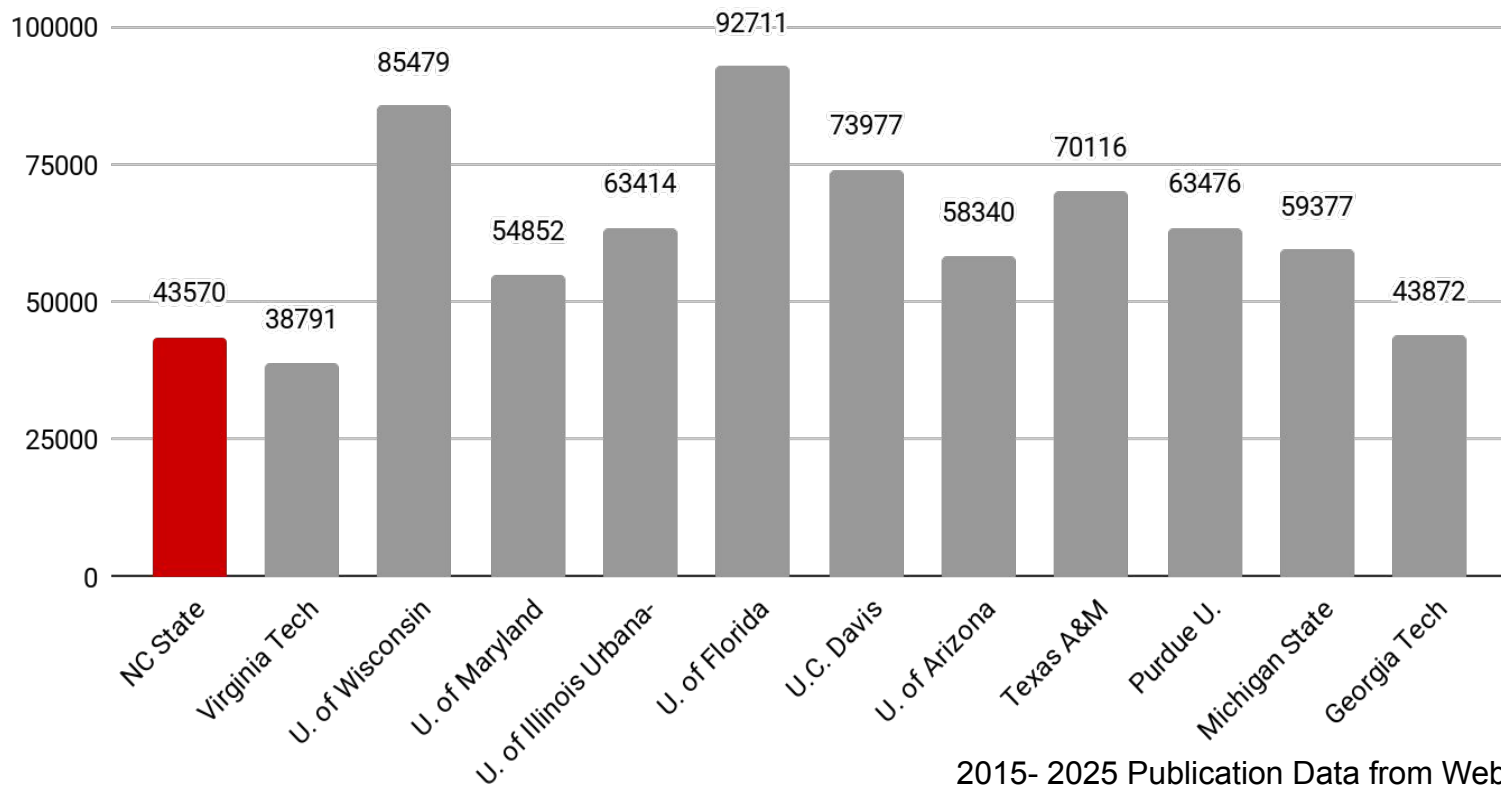
FY23 Research Expenditures Against Official Peers

Institution	T/TT Faculty	ALL Research Expenditures	Research Expenditures w/o medical	ALL Research Expenditures Per T/TT Faculty
Georgia Tech	1,034	\$1,435,218		\$1,388
Maryland, College Park	1,387	\$1,385,302	\$843,731	\$999
Minnesota, Twin Cities*	1,518	\$1,320,183		\$870
Texas A&M*	1,993	\$1,277,814	\$1,221,049	\$641
California, Davis*	1,572	\$962,399	\$700,090	\$612
Arizona*	1,464	\$955,424	\$668,877	\$653
Purdue	1,781	\$844,570		\$474
Michigan State*	1,744	\$844,076	\$727,411	\$484
Rutgers*	1,774	\$831,719	\$385,891	\$469
Illinois, Urbana-Champaign*	1,804	\$821,023	\$820,053	\$455
NC State	1,433	\$633,251		\$442
Virginia Tech	1,518	\$598,113		\$394
Georgia	1,678	\$570,956		\$340

*Have a medical school

All dollar amounts are in thousands

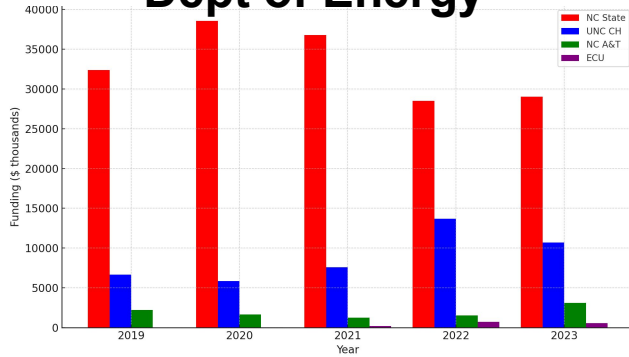
Ten Year Publication Data Against Peers



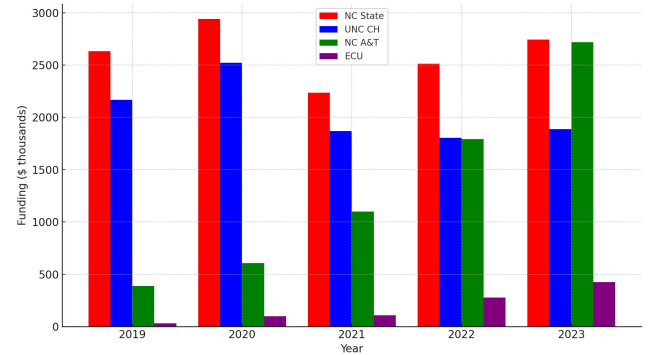
2015- 2025 Publication Data from Web of Science

NC State leads the system in every federal research portfolio outside of health; this breadth is our strength

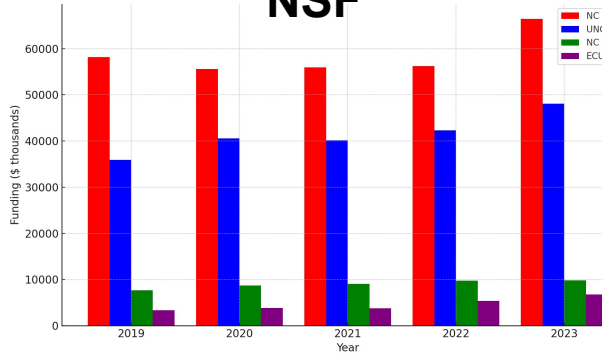
Dept of Energy



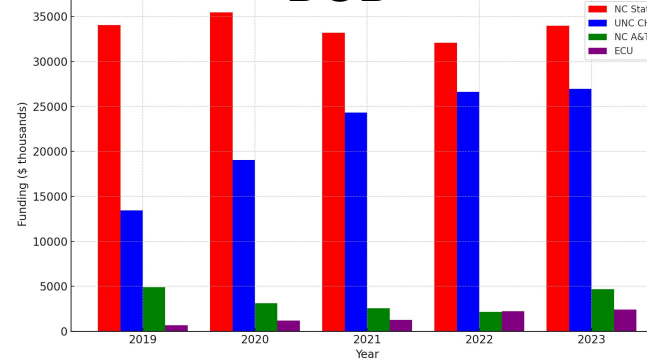
NASA



NSF



DOD





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Federal Transitions

Federal Actions Causing Uncertainty in Research

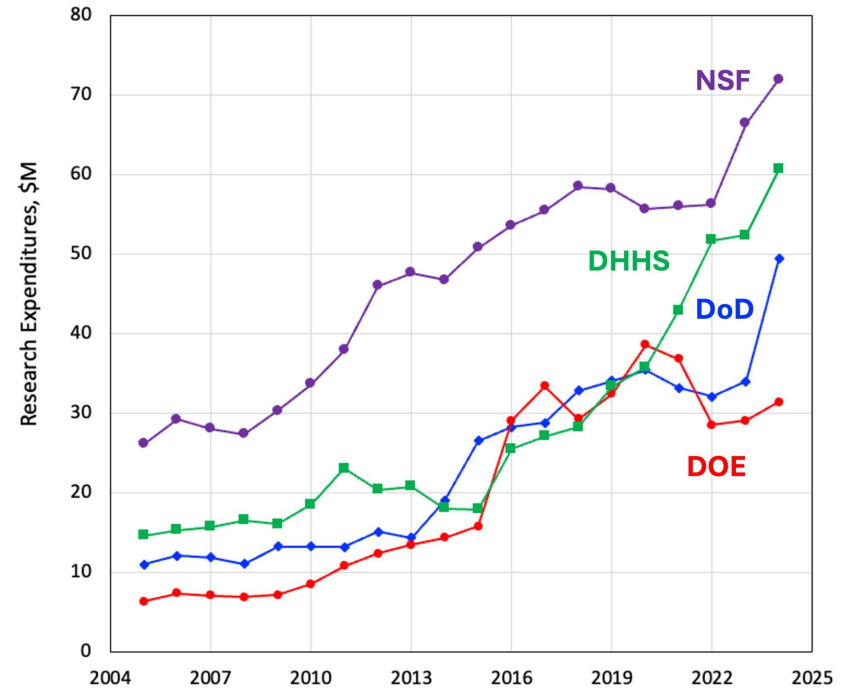
- Shifting agency priorities and federal funding slowdowns have impacted our growth
- Federal bodies have different plans than the major agencies for how the future of federal funding will look
- Focus shifting towards shorter term impacts and research driven by industry
- Many of the largest reductions to indirect cost rates are still in litigation and have been halted in the courts; however, if reductions stand, NC State's research enterprise will be significantly affected
 - Current F&A rate is 52% for externally funded research on campus
 - OMB and Executive Orders seek to cap F&A at 15% across all agencies at all universities

FY 2026 Federal Research Funding

Agency	FY25	President (FY26)	House	Senate
NSF	\$9 B	\$3.9 B	\$7 B	\$9 B
NIH	\$48.6 B	\$27 B	?	\$49 B
NASA	\$7.3 B	\$3.9 B	\$7 B	\$9 B
NOAA	\$656 M	0	\$667 M	\$657 M
NIST	\$173 M	0	\$175 M	\$175 M
DOE	\$8.2 B	\$7 B	\$8.4 B	?
NIFA	\$445.2 M	\$405 M	\$445 M	\$445 M
NEH	\$207 M	\$38 M	\$135 M	\$207 M

Future Opportunities: Expanding Our Portfolio

- Largest source of federal funding is NSF
- DHHS funding has increased substantially in past 5+ years
- DoD and DoE funding has been relatively flat until recent CLAWS DoD Hub
- Federal cuts to NSF and DHHS will have significant impact on expenditures
- Even if agencies maintain FY25 level investment, we cannot maintain growth trajectory without expanding our portfolio to other areas



Key Takeaways

- **NC State punches above its weight**
 - Our investments per faculty are similar to universities with much higher research expenditures.
 - We have the largest NSF, DOE, DOD, and USDA funding in North Carolina.
- **We are investing in research infrastructure**
 - We are responding to campus feedback that improvements are needed and have begun an external assessment
- **Federal funding uncertainty is a risk**
 - To date, our funding has not been impacted at the same level as our regional peers.
 - Expect changes to F&A policy and agency priorities
- **Industry and philanthropic partnerships will have growing importance**
 - Increased focus on shorter term impacts and economic outcomes



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Questions?