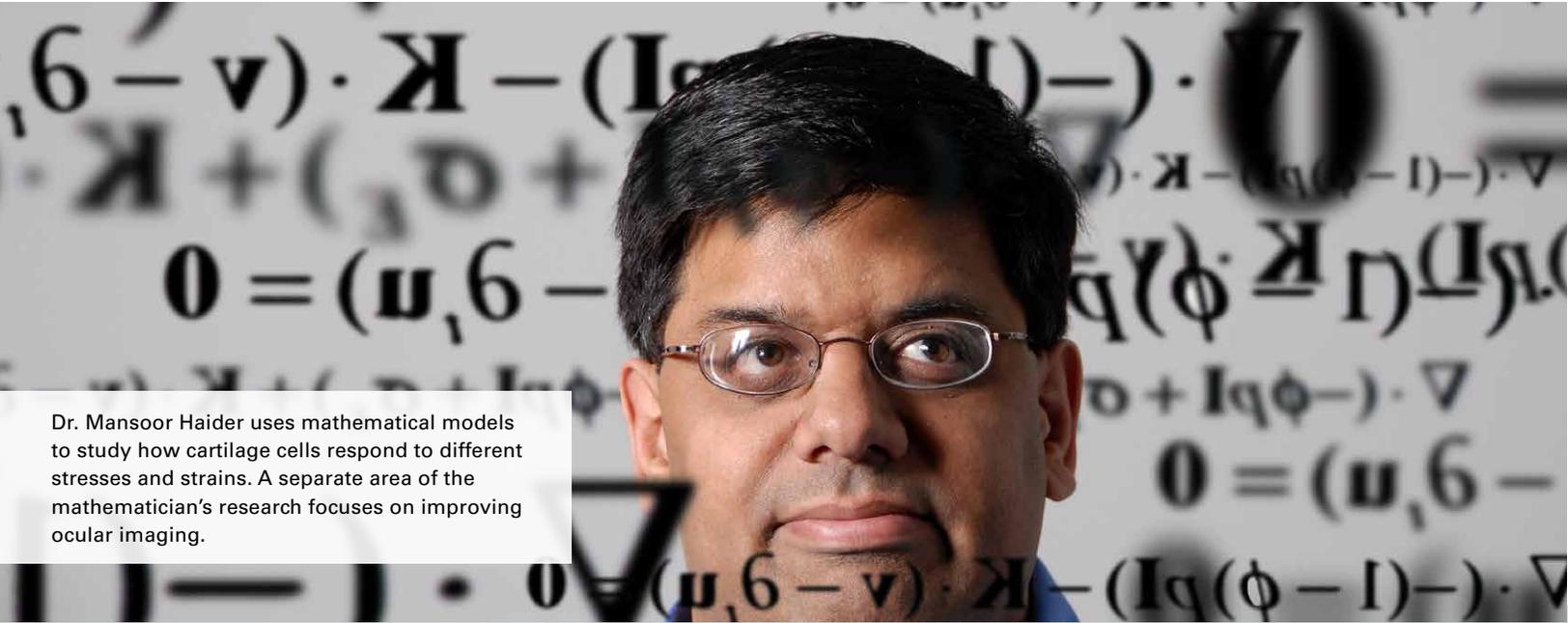


**LAUNCHING A WORLD-CLASS
COLLEGE OF SCIENCES**
2013 - 2016 Plan

TABLE OF CONTENTS

- 1 Foreword
- 2 Our History
- 4 Building a World-Class College
- 6 Leading Edge Research
- 10 Enhancing the Educational Experience
- 12 Cultivating Science Literacy
- 14 Creating a Culture of Entrepreneurship
- 16 Building a Robust Infrastructure
- 17 Legacy Naming Opportunities



Dr. Mansoor Haider uses mathematical models to study how cartilage cells respond to different stresses and strains. A separate area of the mathematician's research focuses on improving ocular imaging.

ABOUT THE COLLEGE OF SCIENCES

7.1.13

College of Sciences launch date

400

Active research projects

4,000

Total students, making Sciences the third-largest college at NC State

610

Faculty, staff and postdoctoral researchers

ACADEMIC DEPARTMENTS

Biological Sciences

Chemistry

Marine, Earth, and Atmospheric Sciences

Mathematics

Physics

Statistics

\$50 million

Annual research expenditures

Foreword

When the provost at NC State recommended creating a new College of Sciences, the chancellor applauded the idea. Both leaders, understanding the importance of the “convergence of the sciences,” knew that this new college could channel NC State’s strengths in the basic sciences into a comprehensive, world-class enterprise dedicated to solving grand societal problems.

The conversation turned to the launch timeline. The provost proposed two years. But the chancellor said, “I think we should do it in one.”

So we did. The new College of Sciences launched on July 1, 2013 — some 14 months after the chancellor announced its creation — bringing together NC State people and programs in the biological, mathematical and physical sciences. Its six academic departments included a new Department of Biological Sciences, the formation of which was based on the recommendations of a consulting group that undertook a national study to help us organize and position our programs.

Now, with the people and programs firmly in place, we have arrived at an exciting time in the College’s history: Shaping its vision. To that end, we are pursuing a dual strategy to be recognized as a world-class institution. One strategy centers on convergence science — people from different fields coming together to tackle big societal challenges in areas of health, energy, security and the environment where we’re well-positioned for success. We’re calling the other strategy “discovery” because it supports pioneering researchers confronting the greatest intellectual questions.

Proceeding down these dual paths means investing in all the ways we serve our students, faculty and the public. These include the obvious areas of education, research and outreach, but we also need to develop a culture of entrepreneurship, expand and modernize our infrastructure, and leverage the power of private philanthropy. These pages expand upon our activities in each of those areas.

Throughout this plan are ideas driven by NC State’s 2011-2020 strategic plan, *The Pathway to the Future*. This College cannot be successful if the university is not successful, and the College adopts as its own the goals and strategies laid out in that document.

By working together with our NC State partners and harnessing the incredible strengths of our students, faculty, staff, alumni and friends, the College of Sciences has a bright future. We can create economic, societal and intellectual prosperity for our stakeholders in North Carolina and around the world.



MISSION

The College of Sciences is an innovative research and education enterprise that solves important problems, guides student learning and prepares the next generation of scientists and leaders for tomorrow’s world.

VISION

The College of Sciences makes NC State the university of choice for diverse, high-performing science students, faculty and staff from around the world. We are at the forefront of innovation in science education and scientific discovery, finding interdisciplinary solutions to the great societal problems, answering the deepest intellectual questions and providing reliable scientific information to the public and policy makers. Our extensive partnerships with business, industry and government fuel a culture of entrepreneurship that creates economic, societal and intellectual prosperity.

OUR HISTORY

The origins of the College of Sciences can be traced to the very beginnings of North Carolina State University. NC State's founders understood that strong programs in the sciences were central to the institution's land-grant mission.

1862

President Abraham Lincoln signs the Morrill Act, paving the way for the creation of land-grant colleges focusing on agriculture and mechanical arts.

1887

The North Carolina College of Agriculture and Mechanic Arts is established.



1889

The first academic sessions for the new college begin with tuition at

\$20 per session. Among the six faculty were a professor of chemistry and a professor of mathematics and practical mechanics.

1890

Microbiology courses become part of the zoology and botany curricula.

1902

Adeline Stevens, a biology instructor, becomes the college's first female faculty member.

1922

Two professors, including zoologist and entomologist Zeno Payne Metcalf, engage in a widely publicized public debate on evolution with William Riley, an anti-evolutionist.



1927

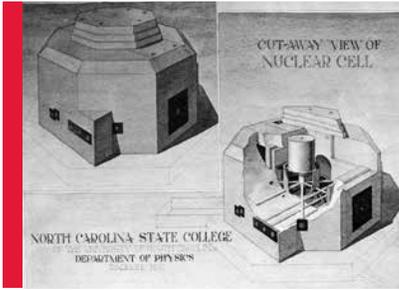
The first degrees are conferred to women at NC State. The recipients included Mary Elizabeth Yarbrough, M.S. in chemistry.

1930

The genetics curriculum is established.

1940

Gertrude Cox is hired as professor of statistics and head of the new Department of Experimental Statistics, becoming the first woman at the college to occupy either rank.



1953
The nation's first university-based nuclear reactor opens on campus. Physics faculty were

instrumental in establishing the facility.

1960

The School of Physical Sciences and Applied Mathematics is established, consisting of the departments of Chemistry, Physics, Mathematics and Experimental Statistics. It is eventually renamed the School of Physical and Mathematical Sciences.

1964

The interdepartmental program in toxicology is established.

The School of Agriculture becomes the School of Agriculture and Life Sciences. It includes a new Institute of Biological Sciences.

1970



James H. Goodnight is appointed as an assistant statistician in the Department of Statistics. Goodnight, a statistics student named John Sall, and others eventually lay the

groundwork for what would become SAS, the analytics software company.

1981

The Department of Marine, Earth, and Atmospheric Sciences is formed, bringing together longstanding programs in the earth-system sciences.

1987

Eight of the university's academic schools, including those in the sciences, are redesignated as colleges.

1991

The Science House is established to provide hands-on science opportunities for K-12 students. Today the program reaches tens of thousands of students and teachers throughout North Carolina.

2003

The Women in Science and Engineering program is established.

2012

A new, comprehensive College of Sciences is announced by Chancellor Randy Woodson.



July 1, 2013

The College of Sciences launches.

BUILDING A WORLD-CLASS COLLEGE

HARNESSING CONVERGENCE, PROMOTING DISCOVERY

The overarching goal of this new organization is to become a world-class College of Sciences. Our success is important to the success of the university. Despite its long-held strengths in the sciences and engineering, NC State cannot be world-class if its programs in the basic sciences are not internationally recognized.

This College will pursue a dual strategy to earn world-class stature in the sciences.



Caleb Porter (left), a Ph.D. student in chemistry, and Gina Hilton, a Ph.D. student in toxicology, analyze proteins to better understand how the local environment affects protein expression, protein function and, ultimately, human health. The new College encourages this type of cross-disciplinary collaboration.

CONVERGENCE

The convergence path brings together people from a variety of different fields to tackle complex societal challenges in health and well-being, educational innovation, energy and the environment, and safety and security.

A primary motivation for establishing the new College was to bring about this kind of transdisciplinary activity; it characterizes much of today's high-impact science. Examples include environmental studies focusing on sustainability and medical research shifting from disease treatment toward health and wellness.

DISCOVERY

The discovery path invests in promising researchers who confront the greatest intellectual questions at the foundational levels of science. Universities are among the few remaining institutions pursuing this line of research.

These themes might be associated with interdisciplinary topics, or they might not. The themes might have immediate real-world applications, or they might not. What they have in common is pressing the frontiers of knowledge and intellect to achieve pioneering breakthroughs.

DIVERSITY IS OUR FOUNDATION

It's well known that women and people of color are underrepresented in many STEM academic disciplines and the STEM workforce. The College must diversify the disciplinary pipelines in order to meet increasing needs for trained scientists. That is an economic imperative.

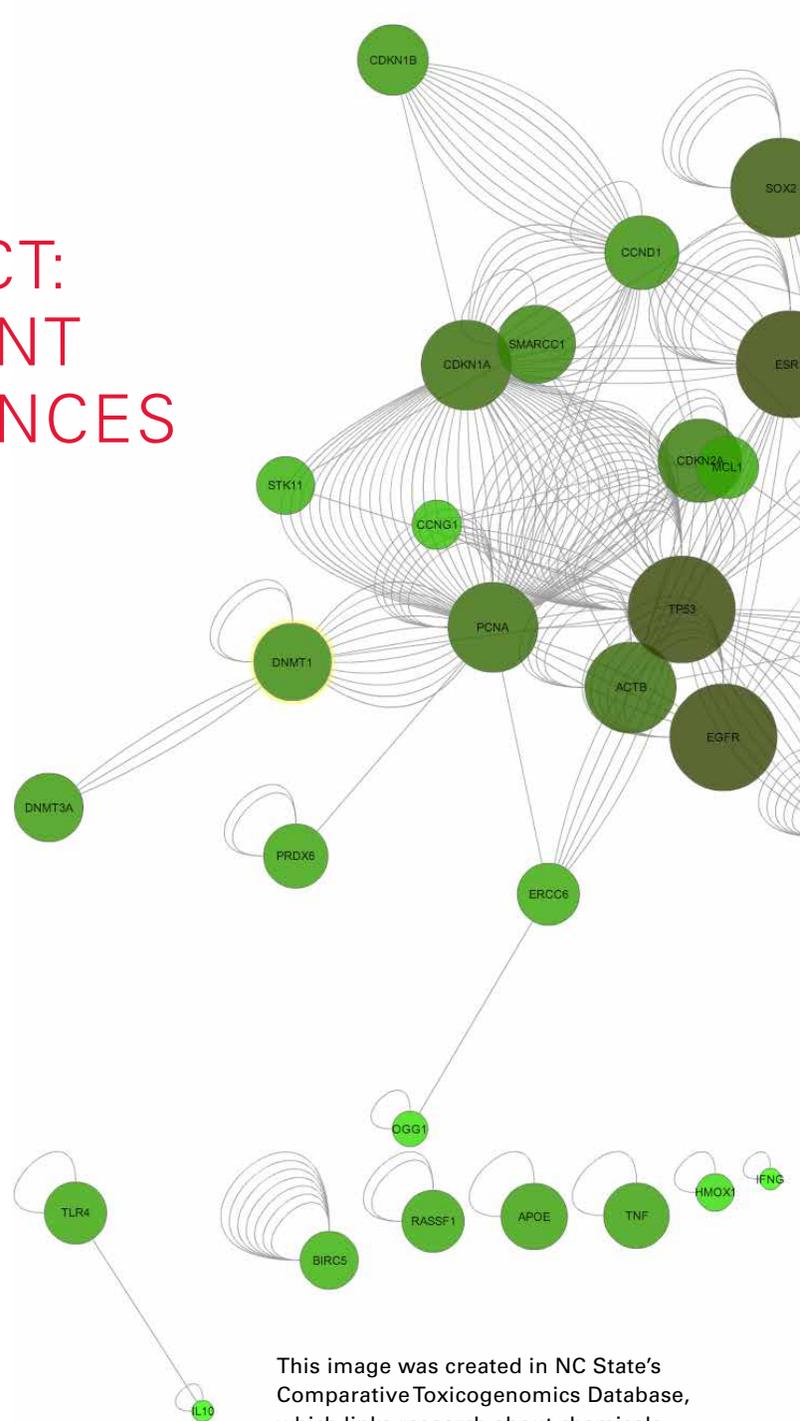
And there is an academic case for diversifying the College. For example, the research literature demonstrates that developing critical thinking skills requires serious engagement with others in a diverse campus community.

GROWING FOR IMPACT: THE NEW DEPARTMENT OF BIOLOGICAL SCIENCES

Becoming a world-class College of Sciences means building a world-class program in the biological sciences, the linchpin for tomorrow's convergence science breakthroughs.

Many of these breakthrough opportunities will be in human health. NC State can be a national leader in many health-related areas while not subject to the challenging funding models of schools of human medicine.

Toward that end, NC State has created a new Department of Biological Sciences that brings together people and programs in biology, genetics, microbiology and environmental and molecular toxicology. To deliver outstanding research and education experiences, the department will grow its faculty and reduce undergraduate enrollment, as North Carolina students have many excellent options for such degrees at other UNC-system schools.



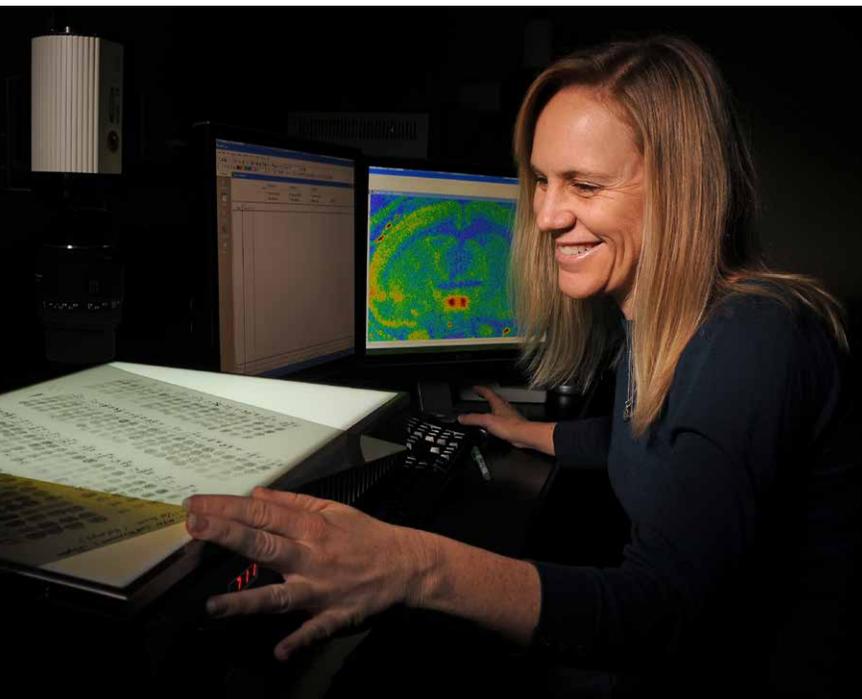
This image was created in NC State's Comparative Toxicogenomics Database, which links research about chemicals, genes and diseases to better predict how chemicals will affect our health. Biological Sciences researchers run this one-of-a-kind public database.

OUR WAY FORWARD: DIVERSITY

- › Through programs sponsored by the office of Diversity and Student Services and The Science House, the College introduces students from diverse backgrounds to exciting sciences activities.
- › Enhancing the Women in Science and Engineering Program gives more female students unique opportunities to live and work with other women in STEM majors.
- › Promoting research-based cooperative learning pedagogies such as the College's SCALE-UP program helps students from all populations, especially female and African-American students.
- › By taking a leading role in campus-wide faculty and staff diversity programs and enhancing parental leave and other benefit policies, the College establishes itself as a welcoming workplace, enhancing productivity and retention.

LEADING EDGE RESEARCH

Research permeates all parts of the College's culture, providing the foundation for an innovative learning environment that engages faculty and students, our cutting-edge research boosts the economy, advances knowledge and improves the human condition.



IMPROVING HUMAN HEALTH

Maintaining health rather than reacting to illness. Giving patients individualized care, right when they need it.

These possibilities demonstrate the power of the quantitative biosciences to improve human health. The National Academies characterize this kind of work as the "re-integration of the many sub-disciplines of biology, and the integration into biology of physicists, chemists, computer scientists, engineers, and mathematicians to create a research community with the capacity to tackle a broad range of scientific and societal problems."

To have an impact in such a broad field, NC State will need to invest strategically in areas that harness strengths in all the colleges as well as other Triangle universities.

BEATING BPA

Dr. Heather Patisaul studies how chemicals in our environment are reshaping our brains, bodies and behavior. The NC State biologist's research on BPA helped convince manufacturers to stop producing adult water bottles and baby bottles made with the chemical. In 2012, due in large part to the work of Patisaul and others, the U.S. Food and Drug Administration banned BPA from baby bottles.

OUR WAY FORWARD: IMPROVING HUMAN HEALTH

Behavioral neuroscience and neurodegenerative disease

Comprehensive knowledge of brain function is critical to understanding and treating a huge spectrum of neurodegenerative diseases.

Individualized healthcare and data analysis

The underpinnings of a personalized medicine approach to health care lie in tools developed by statisticians and mathematicians. Developing new tools could yield insights into the interactions between genes and the environment that determine susceptibility to diseases, such as cancer.

Novel therapies for infectious diseases

Combining current expertise with new hires could lead to the development of a complete therapeutic sequence that takes new treatments for deadly, drug-resistant diseases from the lab to the marketplace.

Living tissues and designer materials

Progress in regenerative medicine toward better treatments for diseases such as cirrhosis and arthritis will require a new understanding of how living multi-scale materials respond to stimuli and manage their environments through chemical regulation.

LIFE ON A CHANGING PLANET

Predicting and quantifying global change and its consequences means understanding how change has occurred over long, often extremely long, periods of time. It also means understanding how that change has influenced life and how life has influenced change. The College is ideally poised to leverage current research strengths with investments in two key areas.

The first involves developing more accurate and useful predictions of Earth systems, such as better weather forecasts, more accurate projections of climate change, and more precise predictions of risks of extreme events, such as floods.

The second involves predicting the future of life in this changing world. Although many researchers focus on how life has changed (or is changing), we are aware of no group at any U.S. university that focuses on projecting how the changing composition of life will affect human health, conservation, ecosystem services, food production and other parts of society.

Achieving national prominence will require NC State to gain additional expertise in several areas.



STOPPING MENINGITIS IN AFRICA

Understanding the link between weather and meningitis in the Sahel area of Africa could help improve vaccine distribution and save lives. Dr. Fred Semazzi, an NC State meteorologist, helped develop a new tool to guide vaccination decisions. The tool would have helped prevent 24,000 cases of meningitis over three years, researchers estimated.

““ For most of its history, the Earth has experienced vast alterations, including in its climate, in response to natural variations in the planet itself. Although just a moment in time relative to Earth’s long history, humans are emerging as the dominant agent of change at the Earth’s surface. ””

— *Geovision, a 2009 report of the NSF Advisory Committee for the Geosciences*

OUR WAY FORWARD: A CHANGING PLANET

Satellite remote sensing

Increasingly, the observational basis for prediction comes from satellites that orbit the Earth. These instruments return huge amounts of information, creating natural ties to the College’s work in “big data.”

Data assimilation

Some of the greatest recent improvements in forecast accuracy and reliability have emerged from converting raw observations into viable initial conditions for predictive models.

Life’s response

Understanding how life responds to global change includes modeling responses of populations; studying rapid evolutionary responses; and quantifying longer-term evolutionary responses.



DISRUPTIVE DISCOVERY

“Disruptive innovation” is a term coined by Harvard Business School professor Clayton Christensen to describe innovations that improve or displace products and services in ways that the market does not expect. Examples include GPS replacing paper maps and mass-produced automobiles winning out over horse-pulled buggies.

In this new College, we like to use the term “Disruptive Discovery” to describe more fundamental discoveries that “change everything,” such as the double helix or the theory of relativity. A world-class College of Sciences can enable Disruptive Discovery by investing in talented faculty who focus on great intellectual themes.

BRIGHT IDEAS FOR SOLAR POWER

Dr. Harald Ade works to increase the efficiency with which solar cells can convert sunlight to usable electric power. The NC State physicist helped discover an easy way to modify the molecular structure of a polymer commonly used in solar cells. The modification can increase solar cell efficiency more than 30 percent.

OUR WAY FORWARD: DISRUPTIVE DISCOVERY

Organic and carbon electronics

We are in the middle of a science revolution in carbon-based electronic materials. Applications include low-cost solar-to-electric energy conversion and new medical technologies.

Functional properties of biological macromolecular machines

Understanding the function of the chemical units that make up living systems and their dynamical response involves the intersection of the biological, chemical and physical sciences.

Mesoscale science:

From living tissues to designer materials

Mesoscale science covers the phenomena that emerge at length scales bridging the microscopic and macroscopic — the scales relevant to many solar cells, magnetic materials and biomaterials.

Fluid mechanics for biological and environmental applications

Fluid mechanics includes research involved in everything from studying biological fluids in cardiovascular systems to developing new ways to describe fluid motions in the earth system, including the modeling of tsunamis.

Quantum physics, entanglement and strong correlations

Quantum physics connects diverse fields of fundamental science and is a cornerstone for understanding nature at all length and energy scales.

DATA-DRIVEN SCIENCE

The phrases “big data” and “data science” have barreled into the scientific and public lexicons in recent years. The excitement is driven by the fact that big data — data sets that are massive in volume, rate of acquisition or complexity — provide immense opportunities to address a wide array of societal challenges in everything from health to national security. This includes work conducted at NC State’s new Laboratory for Analytic Sciences, a research center established by the National Security Agency.

NC State’s historic strengths in statistics and mathematics include experts in many big-data-related areas. The establishment of the College of Sciences builds upon long-standing partnerships at the university and provides a set of tools for enabling research in the three areas previously mentioned in this section.



A PERSONAL APPROACH

Dr. Marie Davidian, an NC State statistician, is collaborating with researchers at UNC-Chapel Hill and Duke on a National Cancer Institute-funded project developing new statistical approaches to personalized cancer medicine. The long-term goal of such work is to identify the right treatment for the right patient at the right time.

“Those who harness the power of data will lead the 21st century.”

— *National Consortium for Data Science*

OUR WAY FORWARD: DATA

Nearly every research field and industry sector struggles to manage and extract useful information from massive data sets. At NC State, several research clusters created by the Chancellor’s Faculty Excellence program, including one dedicated to Data Driven Science, were developed to harness the power of big data. Sciences researchers play key roles in all of these areas.

Global environmental change

Research in areas such as evolutionary ecology will aid scientific understanding of major global environmental changes in climate, water availability and other areas; gauge the impacts of these changes on ecosystems and humans; and inform how society can best manage and adapt.

Bioinformatics

This field develops and deploys tools to help make sense of the vast, complex and diverse data sets coming from studies in biological and medical science.

Environmental health

Research in this area addresses population-level effects of environmental factors on human health and the link between environmental exposure and health.

Personalized medicine

The goal of personalized medicine is to tailor treatment decisions for an individual patient based on all information available, including prior treatment and response history. That includes not only genomic information but also demographic and physiological factors.

ENHANCING THE EDUCATIONAL EXPERIENCE



Undergraduate students in Dr. Gavin Williams' chemistry lab get hands-on research experience the moment they walk through the door. The students use bacteria to produce molecules that could help lower antibiotic resistance or fight cancer.

Teaching our students to become leaders and contributing members of a global society is a first-order responsibility of the College of Sciences. To that end, we need to enhance the educational experiences of students within the College and across campus.

We will reach that goal through strategies laid out in the university's strategic plan. The plan placed particular importance on strategies aimed at first-year students, including an expansion of courses aimed at bolstering students' critical-thinking and communication skills. It also identified ways to improve graduate education that will include reorganizing graduate training into more flexible graduate fields of study.

“ While balancing access with quality, NC State must ensure that our students make timely progress toward an NC State degree, and along the way, must provide educational opportunities that inspire them to lead, to serve, to challenge, to take responsibility, to build problem-solving skills, and to engage with complex problems. ”

— *The Pathway to the Future, NC State Strategic Plan 2011-2020*

OUR WAY FORWARD: EDUCATION

Life Sciences First Year Program

In this new program, students take a common set of first-year courses that prepare them for any of the life sciences programs across our college and the College of Agriculture and Life Sciences. The program includes specialized advisors, peer mentors and a course that develops critical and creative thinking skills.

Undergraduate research

We want to be the state university system's school of choice for students who want a research-rich undergraduate education. Initiatives include expanding the Research PackTrack Program for first- and second-year students, developing interdisciplinary learning labs that coordinate with student clubs, promoting fieldwork experiences, and partnering with industry to fund problem-driven research teams. The work could include public science projects that dovetail with the College's science literacy initiative (see page 12).

Study abroad

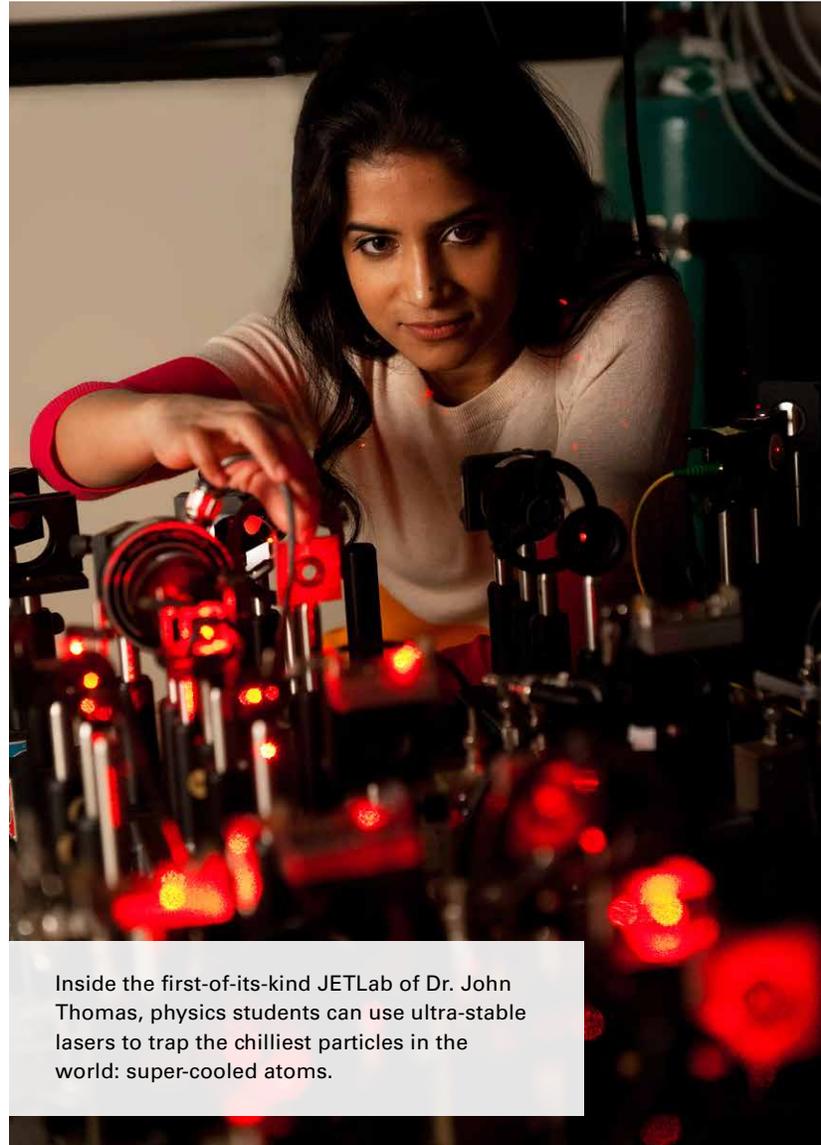
We are committed to increasing our students' participation in transformational study abroad experiences. Our goals include working with the Study Abroad Office to identify discipline-specific, eight-semester tracks to give students a template for taking advantage of these opportunities.

Academy for Instructional Innovation

This planned academy will extend our strengths in discipline-based educational research to implement reforms that transform student learning in the sciences.

Graduate fields of study

Most current graduate programs at NC State are department-centric. This new model reorganizes doctoral training into clusters that cross department and college boundaries.



Inside the first-of-its-kind JETLab of Dr. John Thomas, physics students can use ultra-stable lasers to trap the chilliest particles in the world: super-cooled atoms.

CULTIVATING SCIENTIFIC LITERACY



YOUR WILD LIFE

The Your Wild Life lab in the Department of Biological Sciences holds mite-sampling events in which participants have their faces swabbed to collect the mites crawling there. Little is known about these tiny organisms that wriggle all over our faces, and the goal of this project is to map the mites' family tree and see how it tracks human evolution.

Continued economic growth and advances in health, energy, security and environmental stewardship demand a scientifically literate citizenry. Moreover, decision makers need solid scientific information to frame policy proposals, and citizens need the tools with which to evaluate them.

College of Sciences faculty inherently contribute to the scientific literacy of NC State students. But more must be done. The College needs to arm the next generation of scientists with the skills and sense of professional responsibility that enable and dispose them to be effective communicators of science and informers of public policy.

Public science — involving the public in scientific work — is an area of great strength for this College. It has a longstanding partnership with the NC Museum of Natural Sciences; a well-known K-12 outreach program in The Science House; and a wealth of strong research initiatives that include or focus explicitly on public science. Your Wild Life in the Department of Biological Sciences is one of the nation's premier programs doing what's sometimes called "citizen science," or engaging the public in gathering, analyzing and interpreting scientific data.

The College can build upon its strengths in these areas in many ways, including establishing the Center for Public Science and growing The Science House outreach program.

OUR WAY FORWARD: THE CENTER FOR PUBLIC SCIENCE

This proposed center would be a hub for public science and science communication, engaging the entire university and the general public through research projects, workshops, lectures, seminars and a range of other initiatives. Furthermore, it would establish the College as a world leader in these areas. Among its goals:

- › Provide opportunities for every undergraduate student to engage in science communication activities, such as a campus-wide project that focuses on genomics, biodiversity or climate change.
- › Pioneer innovative citizen science projects, such as recent efforts to measure armpit diversity, that engage the public from hypotheses to data collection to analyses.
- › Partner with NC State's College of Humanities and Social Sciences to further explore the creation of an undergraduate initiative that focuses on communicating science.
- › Develop a Science Communication graduate certificate program to train graduate students to communicate effectively with a variety of audiences.
- › Build on the partnership with the NC Museum of Natural Sciences, including capitalizing on joint faculty appointments that bring a public mindset to the university and an academic mindset to the museum.

“In 1989, when 'climate change' had just entered the public lexicon, 63 percent of Americans understood it was a problem. Almost 25 years later, that proportion is actually a bit lower, at 58 percent.”

— Op-ed in *The New York Times*, 2013

The Science House

MISSION

- Motivate and prepare K-12 students, especially students from underserved and underrepresented groups, to pursue and graduate with science, technology, engineering and mathematics (STEM) degrees and work in STEM fields
- Educate and empower K-12 teachers to effectively integrate active learning strategies, real-world STEM research and emerging technologies into their instruction

ANNUAL REACH

8,000 teachers

57,000 students

MAIN OFFICE

Raleigh

SATELLITE OFFICES

Asheville

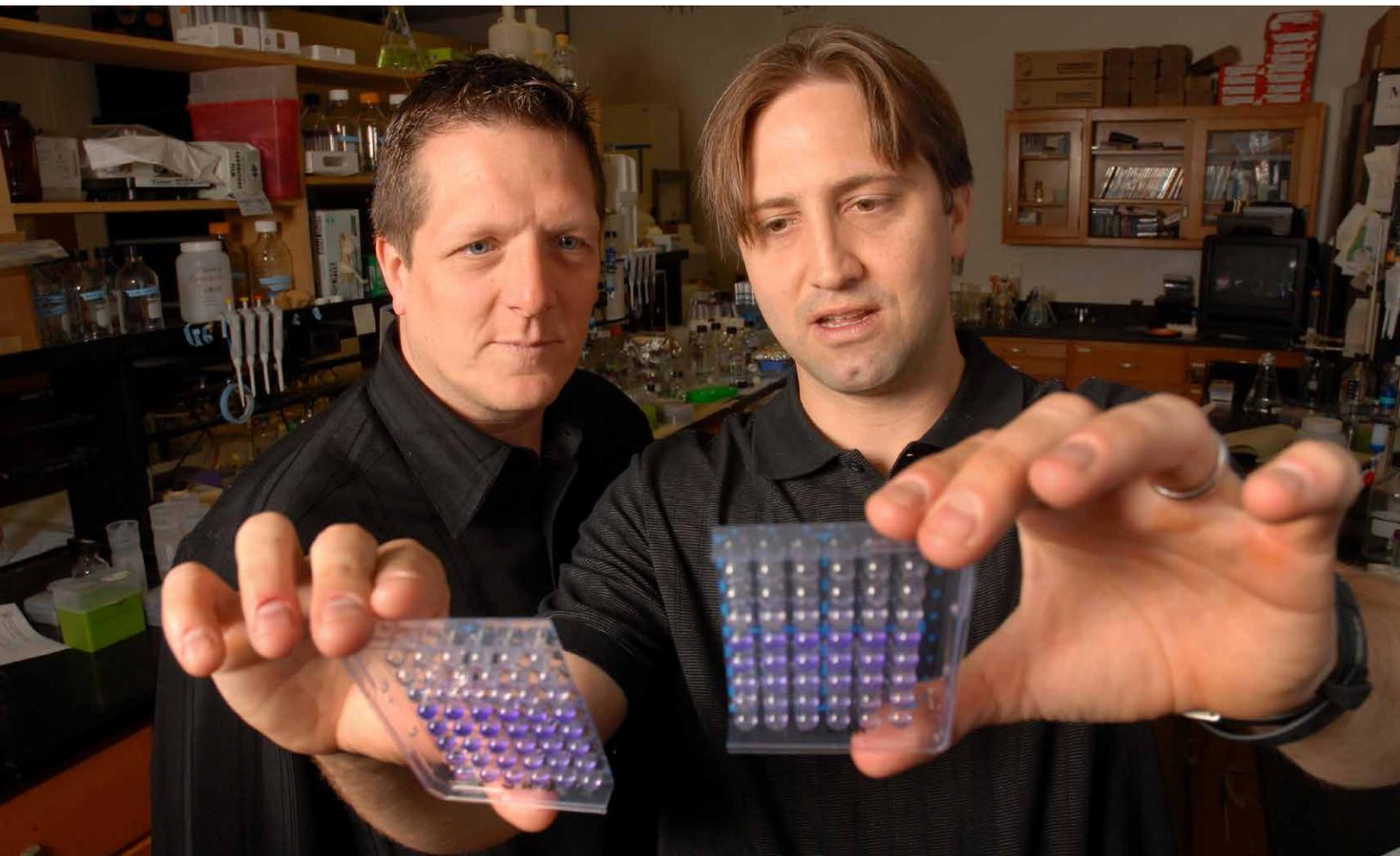
Edenton

Lenoir

Morehead City



CREATING A CULTURE OF ENTREPRENEURSHIP



AGILE ENTREPRENEURS

Dr. Christian Melander (right), an NC State chemist, and Dr. John Cavanagh, a biochemist, are co-founders of Agile Sciences, which develops compounds that can disperse colonies of bacteria called biofilms. The work has applications in medicine, agriculture and industry.

The research includes finding a way to neutralize methicillin-resistant *Staphylococcus aureus*, or MRSA, one of the most common and difficult-to-treat antibiotic-resistant bacterial strains.

The College will build a culture of entrepreneurship that fuels economic development. That includes encouraging faculty to start companies and transfer their research to the marketplace and the public service sector. But it also means forging more research partnerships with existing industry collaborations that have the added benefit of creating more job and internship opportunities for students.

The College has identified several ways to develop into a go-to partner for business and industry and serve as a key source for inventions with impact and ideas that change everything.

OUR WAY FORWARD: ENTREPRENEURSHIP

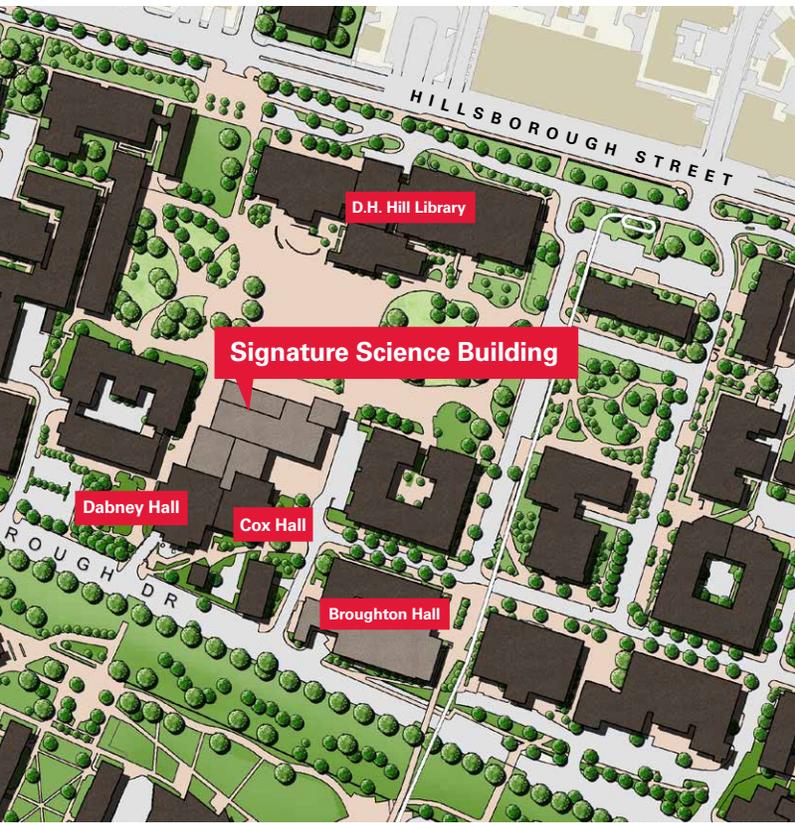
- › Partner with the NC State Entrepreneurship Initiative to encourage students to participate in entrepreneurial activities. Extend partnerships to targeted economic development organizations such as the N.C. Biotechnology Center.
- › Develop relationships with start-up companies that will provide internship opportunities for students. Create a student entrepreneurial fund to support summer internships at these companies.
- › Create opportunities for faculty, staff and students to interact with entrepreneurs and industry leaders to identify potential collaborations. A volunteer committee of successful entrepreneurs could provide advice to faculty and students.
- › Increase Graduate Industrial Traineeship programs across disciplines in order to facilitate entrepreneurial opportunities for graduate students.
- › Develop criteria to recognize and appreciate entrepreneurial behavior in promotion and tenure guidelines.
- › Create entrepreneurial, “proof of concept” and research funds to support the development of faculty ideas with market potential.



A LONGTIME PARTNER

The analytics software company SAS was founded by then-NC State statistics professor Jim Goodnight, graduate student John Sall, and others. SAS is active in the Graduate Industrial Traineeship program, in which NC State graduate students get first-hand experience working with industry. Funding for SAS Hall, which opened in 2009, included a substantial contribution from the company.

BUILDING A ROBUST INFRASTRUCTURE



As the College grows and develops, its physical spaces must grow and develop with it. Interdisciplinary institutes around the nation are unanimous in the view that contiguous space is critical to high-impact convergence science.

But while we need new space to achieve world-class status, we are also working to optimize the space we have. We support the concept of shared-user facilities as a way to split costs and increase effectiveness.

OUR WAY FORWARD: INFRASTRUCTURE

Signature Science Building

The College seeks funding to construct a new building that will contain features designed to foster interdisciplinary relationships, such as a Sciences Commons where students and faculty can have serendipitous discussions that often precede fruitful partnerships. The building will also feature classrooms with flexible space and immersive learning technologies.

We see this building as an attractive location for industry groups, as it will contain meeting spaces where leaders from business and government can convene to share common concerns and partner with us to identify solutions.

The Innovation Neighborhood

The new building will be part of a planned Innovation Neighborhood that includes Broughton, Cox and Dabney Halls, all of which need funds for renovations geared toward research and graduate education. This neighborhood will be the hub of a Sciences Corridor on North Campus that stretches from SAS Hall down Stinson Drive and past the Brickyard all the way to David Clark Laboratories.

Other Space Priorities

- › Co-location of materials physics and chemistry faculty in Partners III
- › Renovation and consolidation in some of the buildings housing Biological Sciences faculty, including parts of Thomas Hall, to enhance opportunities for community-building and collaborations
- › Leasing of new space, if no other space is available, and if programs and funding are justifiable
- › Safety renovations in certain buildings, including Dabney, Bostian and Riddick Halls
- › Research infrastructure improvements, including shared user facilities
- › Enhancement of sciences laboratory animal facilities

HOME BASE

The Signature Science Building will be the central home for the College of Sciences and feature distinctive design and functionality that will make it a centerpiece of North Campus, much as the Hunt Library is on Centennial Campus. The building would stand near the Brickyard on ground currently occupied by Harrelson Hall, which is slated for demolition.



LEGACY NAMING OPPORTUNITIES

It's no stretch to say that a legacy naming gift would transform the College of Sciences by supporting the work of our students and faculty for generations. A naming gift can be transformative in many ways, including elevating an institution's national profile and boosting its national rankings.

NAMED COLLEGE OF SCIENCES

A gift to name the College of Sciences will build on the momentum created by the recent bringing together of the biological, physical and mathematical sciences into one comprehensive college.

- › Enables academic leaders to remain ahead of the curve, developing and supporting programs of research and teaching that address society's needs
- › Creates professorships, graduate fellowships and undergraduate scholarships that attract scholars across the disciplines
- › Addresses needs all over the College through support for the biological, mathematical, statistical, chemical, physical and earth-system sciences
- › Allows the College to respond to new directions in industry and society that affect health and well-being, energy and the environment, and safety and security, making NC State a hugely sought-after destination for top faculty and students

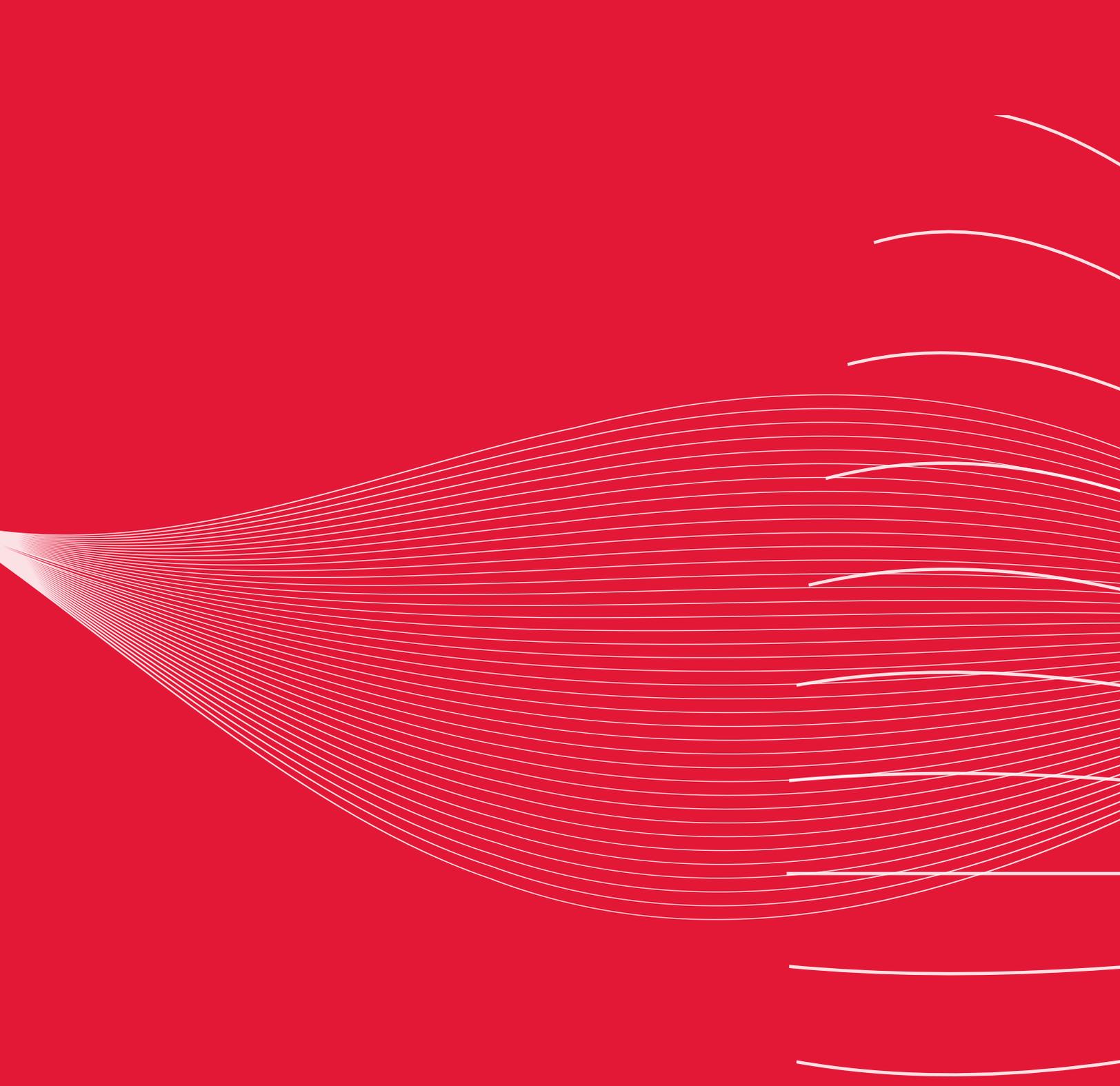
NAMED ACADEMIC DEPARTMENTS

Naming the College's six academic departments will offer instant prestige and further establish NC State as a destination for top scholars.

- › Ensures the pre-eminence of the departments, and their contributions to the state and national economies, for generations to come
- › Allows departments to respond to emerging needs and opportunities by providing faculty and student support, curriculum enrichments and increased opportunities for interdisciplinary research
- › Establishes professorships, graduate fellowships and scholarships that attract the best and brightest in their fields to NC State

NAMED CENTER FOR PUBLIC SCIENCE

This first-of-its-kind center would get students heavily involved in science communication as well as "citizen science" that engages the public in scientific work (see page 12).



College of Sciences
NC State University
Campus Box 8201
Raleigh, NC 27695-8201

sciences.ncsu.edu

 facebook.com/ncstatesciences

 [@ncstatesciences](https://twitter.com/ncstatesciences)