

# NC STATE

SHAPING THE FUTURE OF VETERINARY MEDICINE



**NC STATE**  
UNIVERSITY

College of  
Veterinary Medicine





# WE ARE INNOVATORS

Our globally recognized faculty members are driving new methods that provide experiential learning and individualized career paths for each each student.

## We Champion Global Health

To help students examine the inherent complexities of improving health on a worldwide scale, we provide a formal Certificate in Global Health.

## Offer A Working Farm

Just outside our back door, the Teaching Animal Unit on 80 picturesque acres lets students observe and work with a range of agricultural animals in a real farm setting.

## Invest In Diversity

The success of our college depends on our investing in people, programs and resources to build a culture that values all people and their ideas and embraces the meaningful participation of everyone.

## Expand Worldviews

Electives to China, Uganda and the Galapagos Islands offer students hands-on research of wildlife and ecology and a mind-stretching look at other cultures.

## Lead A Marine Lab

The NC State Center for Marine Sciences and Technology on the North Carolina coast means access to unique marine sciences courses and a broad range of research and internship projects.

## Develop Medical Interventions

Our clinicians use stem cell therapy to treat diseases from urinary to cardiac.





# WE ARE PROBLEM-SOLVERS

Our industry partnerships, clinical trials and groundbreaking research are helping animals and humans in our community and across the globe.

## We Save Endangered Species

With our own pack of red wolves on campus, we are at the center of a nationwide effort to repopulate the world's most critically endangered canid species.



## Cultivate Clinician Scientists

Our Comparative Biomedical Sciences Graduate Program is unique in its ability to offer extensive interdisciplinary training through liaisons with graduate faculty at other NC State colleges as well as those of nearby Duke University and the University of North Carolina at Chapel Hill.

## Decrease Threats

In a major breakthrough for the swine industry, our researchers developed an algorithm and new methods to help pig farmers better predict, prepare for and contain disease outbreaks.

## Collaborate With WHO

The World Health Organization designated the NC State College of Veterinary Medicine as a collaborating center, meaning students, faculty and staff assist in combating food-borne antimicrobial resistance worldwide.





# WE ARE LIFE-CHANGERS

The top-rated NC State Veterinary Hospital has board-certified specialists in more than 30 disciplines providing world-class, compassionate care every day.

## We Target Cancer

Our research and available treatments encompass medical, radiation and surgical oncology options that provide a wide range of care. Our Zoological Oncology and Therapeutics Lab focuses on cancer across species, and our equine team perfected a new approach to treat malignancies called high-frequency irreversible electroporation or H-FIRE.

## Conquer Pain

The work of B. Duncan X. Lascelles, Dr. J McNeely and Lynne K. DuBose Distinguished Professor in Musculoskeletal Health, has helped us learn how to reliably measure chronic pain in naturally occurring chronic disease in animals and subsequently test novel therapeutics for pain relief.

## Tackle Ethical Questions

We created one of the nation's first veterinary clinical ethics committees to help when we have difficult decisions to make as advances in veterinary technology mean pet owners have an increasing array of treatment options for their pets.

## Acknowledge Aging

Natasha Olby, Dr. Kady M. Gjessing and Rhanna M. Davidson Distinguished Chair in Gerontology and professor of neurology and neurosurgery, leads the nation's first veterinary gerontology program, with research into changes in cognition, sensory function, postural stability, mobility and frailty in elderly dogs.

## Provide Comprehensive Care

Our clinic offers extracorporeal services including hemodialysis, hemoperfusion, plasmapheresis and bone marrow transplantation for all diseases. We also offer state-of-the-art equine and canine sports medicine and rehabilitation, and our hospital serves as a Spinal Cord Injury center for dogs.

## Support The Family

We believe in supporting the entire animal family during stressful and difficult times, and we provide a dedicated veterinary social worker who specializes in human-animal relationships, traumatic loss and grief counseling to clients.



# WE EVOLVE AND EXCEL

## We build on existing successes to maximize investments.

Thanks to a generous donation, we're upgrading our Teaching Animal Unit with a **\$5.5 million** dairy barn, and we're currently raising funds to construct a new equine hospital, below, that will be built adjacent to the existing equine service building on the CVM campus.

\*A rendering of the proposed equine hospital at the NC State College of Veterinary Medicine. Courtesy of Flad Architects.





# THINK AND DO



To learn more, visit [go.ncsu.edu/vetmedinnovation](https://go.ncsu.edu/vetmedinnovation)



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