NC STATE UNIVERSITY

FACULTY POSITION IN DRUG DELIVERY
NORTH CAROLINA STATE UNIVERSITY
COLLEGE OF VETERINARY MEDICINE (CVM)
Raleigh, North Carolina

The Department of Molecular Biomedical Sciences at NC State is inviting applications for a state-funded, twelve month, tenure-track position at the **ASSISTANT PROFESSOR** level in the broad area of **drug delivery**. This position is part of a broader five faculty cluster recruitment effort in building a **Center for Translational Predictive Biology.** The five incoming faculty are expected to synergize with existing faculty and develop an internationally-recognized center focused on integrated systems and analytical methods that can predict *in vivo* responses from *in vitro* systems. Center focus areas of interest include mathematical modeling/machine learning, organoid biology, microphysiological systems (organ-on-chip), drug delivery, and whole animal physiology.

For this faculty position, areas of interest include, but are not limited to, predictive models for drug delivery, delivery of large biological therapeutics (proteins and nucleic acids), addressing key challenges in delivery of drugs such as the blood-brain barrier, bioavailability, local targeting, and/or the use of organoid and microphysiological models to understand or improve delivery of therapeutic agents. Applicants should have a strong background in chemistry, pharmaceutics, biomedical engineering or a closely related discipline and should be interested in contributing their expertise to the predictive biology center and the community of researchers and veterinarians at the CVM**.** Applicants should have a track record of collaborative and interdisciplinary research, and an interest in working with multiple animal models (rodents, large animals,, humans).

The new faculty member will be expected to establish a successful interdisciplinary research program, and actively participate in the veterinary and graduate teaching programs. This position will have the opportunity to complement, and collaborate with, other members of the Translational Predictive Biology Cluster. The successful applicant will also have the opportunity to interact with clinical faculty in a state-of-the-art veterinary hospital, clinical pharmacologists in the college, and outstanding research faculty affiliated with the College of Veterinary Medicine, the Comparative Medicine Institute (CMI), and relevant existing faculty clusters working in related areas such as Modeling the Living Embryo (MLE), High-dimensional Integration of Biological Systems (HIBS) and Synthetic and Systems Biology (SSB). The specific teaching requirements will be tailored to the expertise of the individual and the needs of the college.

The College of Veterinary Medicine at North Carolina State University is one of the top ranked veterinary colleges in North America. The Molecular and Biomedical Sciences Department is the primary department on campus performing research on biomedical approaches to therapy in animals and humans. North Carolina State University and the surrounding area have many enriching opportunities. Research Triangle Park, containing numerous pharmaceutical and

biotechnology companies, is located within the Research Triangle formed by Raleigh, Durham and Chapel Hill, which are home to NC State University, Duke University, and UNC-Chapel Hill, respectively. Raleigh is located in central North Carolina, and both coastal and mountain communities are within a few hours' drive. The Triangle community of Raleigh, Durham, and Chapel Hill is active and culturally diverse and has been cited as one of the most desirable places to live in the United States. The quality of life in Central North Carolina is excellent, with many stimulating cultural, sporting, and outdoor activities.

Applicants must have a Ph.D. or equivalent. Applications should include, a current curriculum vita, a cover letter outlining your fit to the position/cluster and why you are interested in this position/cluster (max 2 pages), a research statement (max 2 pages) and the names and contact information for three references. For additional information or to submit an application, please visit https://jobs.ncsu.edu/postings/188756. Questions can also be directed to Dr. Jorge Piedrahita (japiedra@ncsu.edu), NC State University. The search committee review of applications will begin immediately and continue until position is filled.