

## Faculty Research Interests

- \* **John Barlow, D.V.M., Ph.D.**— mastitis and infectious disease epidemiology, antimicrobial resistance
- Ruth Blauwikel, D.V.M., Ph.D.**—livestock nutrition, biosecurity issues
- Lyndon Carew, Ph.D.**—nutrition, endocrinology, poultry, computers in education
- Patricia Erickson, D.V.M.**—companion animals, zoos
- \* **Sabrina Greenwood, Ph.D.**—nutrition
- \* **David Kerr, Ph.D.**—mammary gland gene expression, mastitis resistance genes
- \* **Jana Kraft, Ph.D.**— dairy lipids and human health, lipid metabolism, fatty acid analysis
- \* **Stephanie McKay, Ph.D.**— genetics and genomics
- Norman Purdie, Ph.D.**—dairy nutrition and management
- Jamie Shaw, B.S.**—dog training and behavior
- \* **Julie Smith, D.V.M., Ph.D.**—dairy calf & heifer nutrition, biosecurity, agrosecurity
- \* **David H. Townson, Ph.D.** — female reproductive physiology, immunology of ovarian function, follicular dynamics
- Jenny Wilkinson, D.V.M.**—equine science, veterinary medicine
- \* **Feng-Qi Zhao, Ph.D.**—lactation physiology, molecular genetics

### Faculty at Miner Institute:

- \* **Catherine Ballard, M.S.**—bovine and equine reproduction
- \* **Heather Dann, Ph.D.**—nutritional physiology of dairy cattle, forage chemistry
- \* **Wanda Emerich, M. Ext. Ed.**— dairy management
- \* **Richard Grant, Ph.D.**—dairy nutrition

\* Active Research Programs



The University of Vermont

### The Area

The University of Vermont is located in Burlington, Vermont, on the shores of Lake Champlain and at the foot of the Green Mountains, making it an ideal location from which to explore the outdoors. Burlington is consistently rated one of the safest, greenest and most livable cities in the nation. The city boasts a vibrant arts culture and is less than two hours drive from Montreal, four hours from Boston and six from New York City.



University Green and Waterman Building overlooking Lake Champlain  
Photo courtesy of University Communications

## Department of Animal & Veterinary Sciences

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Department of  
Animal & Veterinary  
Sciences

## Ph.D. Program in Animal Nutrition and Food Science



The University of Vermont

# The Program



Outstanding students interested in various aspects of animal science can pursue a Ph.D. degree within the Department of Animal and Veterinary Sciences. Students pursuing their Ph.D. become members of

the ANFS (Animal Nutrition and Food Science) Doctoral Program and conduct their research under the guidance of an Animal and Veterinary Sciences faculty mentor.

During their program of study, doctoral students at UVM work closely with their faculty mentor and committee members who are often from other departments. Typically candidates in the Ph.D. program acquire skills in scientific methods and design relevant to their research project, as well as gain the ability to independently conduct, design and review their own research. Our students also undertake a variety of coursework during their program and are given the opportunity to gain valuable teaching skills that we feel are essential for all students in the sciences.

A unique aspect of the ANFS Ph.D. program is the opportunity to be part of a research group focused on a variety of topics. Prospective students are encouraged to explore the research being pursued by graduate faculty within the Department by contacting them with their inquiries.



## Excellent Facilities

Ph.D. students enjoy access to a variety of excellent facilities across campus. Our nearby Miller Research Facility is used for studies involving livestock and complements other animal facilities on campus that are used to study models such as genetically-modified rodents. Our relationship with the Miner Institute in Chazy, New York (1 hour away) also provides the opportunity for students to explore additional research topics in dairy cattle nutrition and behavior.



Miller Research Facility located less than a mile from campus.

## Application Process

Applications are typically reviewed on a rolling basis and can be submitted through the Graduate College at UVM ([www.uvm.edu/~gradcoll](http://www.uvm.edu/~gradcoll)).

For more information, contact the Animal Nutrition and Food Science program coordinator, Dr. David Kerr at:

(802) 656-2113

[David.Kerr@uvm.edu](mailto:David.Kerr@uvm.edu)

## Application Information

The ANFS Doctoral Program welcomes applications from all individuals with a background in the life or physical sciences and a keen interest in research. In addition, applicants should meet the following minimum entrance requirements:

- A BS or BA degree
- Graduate Record examinations (GREs)
- Chemistry: three semesters of chemistry to include inorganic, organic and/or biochemistry, with labs
- Biology: two semesters of a biological science (eg. Anatomy, Biology, Physiology, Animal Sciences, Botany, Nutrition, Food Science)
- Math: one semester of Math (Precalculus or Calculus) or Statistics



If English is not your first language, you must submit scores from the Test of English as a Foreign Language (TOEFL). Students are strongly encouraged to contact a graduate faculty member in the department prior to applying to discuss your research, education, and career goals, and to arrange a visit.



*Rink is currently researching dairy nutrition with Dr. Sabrina Greenwood, specifically looking at diet and milk protein interactions.*

Ph.D. Candidate Rick Tacoma