

**Postdoctoral Associate
Department of Animal Science
College of Agriculture and Life Sciences (CALS)
Cornell University**

The Department of Animal Science offers undergraduate and graduate programs on the biology and management of food, laboratory, and companion animal species. Our research programs advance our understanding of animal biology and address local and global issues facing animal industries today. Our goals are to discover and develop new techniques and information to benefit animals, agriculture, and human health. The Department's 19 faculty members, many internationally recognized, have diverse interests in animal management, breeding, genetics, physiology, nutrition, growth biology, and microbiology.

The sustainability of animal feeding operations in New York State depends greatly on their ability to increase nutrient recycling on the farm, reduce N and P losses to the environment, reduce cost of production and increase yield and milk sales. The incumbent will work on a newly funded USDA-CIG grant entitled "Revising and Implementing Phosphorus Indices (PIs) to Protect Water Quality in the Northeastern US", and is expected to: (1) work with certified nutrient management planners in New York on evaluation of a newly proposed PI and whole farm P balances for case study farms (40%); (2) work with modelers to guide selection of landscape factors and best management practices for inclusion in the P index and develop appropriate weighting factors for the PI (15%); (3) coordinate project activities in the Northeast region (10%); (4) work with nutrient management planners on development and delivery of PI trainings (15%); (5) document project results in the form of peer-reviewed journal articles, extension bulletins and factsheets, and other extension materials and tools (15%), and (6) assist in applied (field) research within the Cornell Nutrient Management Spear Program (<http://nmsp.cals.cornell.edu>) when needed (5%).

The work of the incumbent will be a component of the Cornell Nutrient Management Spear Program, the applied research and extension program in field crops nutrient management for New York dairy and cash grain operations led by Dr. Quirine Ketterings, Professor in the Department of Animal Science (<http://nmsp.cals.cornell.edu>). Included are the following duties (all in collaboration with team leadership and other team members):

- Work with certified nutrient management planners in New York on evaluation of a newly proposed PI and whole farm P balances for case study farm.
- Work with modelers to guide selection of landscape factors and best management practices for inclusion in the P index and develop appropriate weighting factors for the PI.
- Coordinate project activities in the Northeast region.
- Work with nutrient management planners on development and delivery of PI trainings.
- Document project results in the form of peer-reviewed journal articles, extension bulletins and factsheets, and other extension materials and tools.
- Assist in applied (field) research within the Cornell Nutrient Management Spear Program (<http://nmsp.cals.cornell.edu>) when needed.

This is a full-time (40 hours/week) position and will be located in Ithaca, New York. This is a one-year appointment with possible extension depending on funding and performance.

Required Qualifications:

- PhD in agronomy, crop and soil science, or animal science with focus on integration of disciplines and systems analyses.
- Expertise in computer software applications for database management, spreadsheets, word processing and statistical analyses.
- Good analytical skills, include experience with statistical analyses of large datasets.
- 1+ year of experience working in agricultural production and demonstrated understanding of dairy management, applied soil fertility and/or nutrient management.
- Must have excellent communication skills and be a team player.
- Ability to work independently and in collaboration with faculty/staff in the Departments of Animal Science, Soil and Crop Sciences, and PRODAIRY, NY stakeholders, producers and their advisors.
- Must be able to meet the travel requirements of the position, including having reliable transportation or having and maintaining a valid driver's license as well as undergoing a successful driver background check.

Application:

Qualified applicants should submit a cover letter, curriculum vitae and the names of at least three individuals who can submit letters of reference. Please apply via Academic Jobs On-line:

- [Postdoctoral Associate \(https://academicjobsonline.org/ajo/jobs/8566\)](https://academicjobsonline.org/ajo/jobs/8566)

Applications must be submitted by December 5, 2016. For questions regarding the position, please contact Quirine Ketterings at gmk2@cornell.edu or via phone at 607.255.3061.

College of Agriculture and Life Sciences Knowledge with Public Purpose

Cornell University, located in Ithaca, New York, is an inclusive, dynamic, and innovative Ivy League University and New York's land-grant institution. Its staff, faculty, and students impart an uncommon sense of larger purpose and contribute creative ideas and best practices to further the university's mission of teaching, research, and outreach.

Diversity and Inclusion are a part of Cornell University's heritage. We are a recognized employer and educator valuing AA/EEO, Protected Veterans, and Individuals with Disabilities.