

Requisition #19340

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

The College of Agriculture and Life Sciences is currently accepting applications for potential Postdoctoral Associates to work in conjunction with Dr. Quirine Ketterings and Cornell's Nutrient Management Spear Program.

Position Summary:

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 is expected to: (1) evaluate the performance of the NY P index for its effectiveness in impacting whole farm nutrient management (35%); (2) conduct whole farm nutrient balances (statewide) and analyses and evaluation of herd, crop and manure nutrient management on NY dairy farms (35%); (3) aid in the design and implement of an effective adaptive management process for N and P management on dairies and cash grain operations in NY (15%); (4) document project results in the form of peer-reviewed journal articles, extension bulletins and factsheets, and other extension materials and tools (10%), and 4) assist in applied (field) research within the Cornell Nutrient Management Spear Program (<http://nmsp.cals.cornell.edu>) when needed (5%).

Essential Duties and Responsibilities:

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, Associate 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):

1. Evaluate the performance of the New York State P Runoff Index and its impact on farm-based manure and fertilizer use decision making using statewide datasets (farm and watershed levels).
2. Conduct analysis and evaluate whole farm N, P, and K management of New York State dairies using current software tools (whole farm mass nutrient balance, etc.) and contribute to development of steps necessary for integrating herd, crop and manure nutrient management for environmentally sound nutrient management on dairy farms.
3. Work with farmers and farm advisors to design and implement an effective adaptive management process for N and P use on dairies and cash grain operations in New York State.
4. Document project results in the form of peer-reviewed journal articles, extension bulletins and factsheets, and other extension materials and tools.
5. Assist other NSMP staff and students in applied research/extension when needed.

Minimum 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. At least one 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. The incumbent will be expected to work independently and in collaboration with faculty/staff in the Departments of Animal Science, Crop and Soil Sciences, and PRODAIRY, NY stakeholders, producers and their advisors. Should have a valid driver's license.

To apply send your resume, cover letter and contact information for three references to Quirine M. Ketterings, NMSP, Department of Animal Science, 323 Morrison Hall, Ithaca NY 14853. Application review starts January 3, 2013.

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College of Agriculture and Life Sciences***

- No relocation assistance is provided for this position.
- Background check may be required.

Cornell University is an innovative Ivy League university and a great place to work. Our inclusive community of scholars, students and staff impart an uncommon sense of larger purpose and contribute creative ideas to further the university's mission of teaching, discovery and engagement. Located in Ithaca, NY, Cornell's far-flung global presence includes the medical college's campuses on the Upper East Side of Manhattan and Doha, Qatar, as well as the new Cornell NYC Tech campus to be built on Roosevelt Island in the heart of New York City.

Diversity and inclusion have been and continue to be a part of our heritage. Cornell University is a recognized EEO/AA employer and educator.