POSITION ANNOUNCEMENT

Job Title: Postdoctoral Research Associate
Research area: Air Quality Engineering
Department: Biological & Agricultural Engineering
University: North Carolina State University
Location: Raleigh, North Carolina

Job Description:
This postdoctoral appointment will be for one year with possibility for extension. This position will conduct original research for a NSF funded project entitled “Fate, Transport and Transformation of Ammonia Emissions from Animal Feeding Operations and Their Impacts on Air-Soil Health” The overall goal of this project is to advance our understanding of ecological and environmental impacts of atmospheric N on air-soil health by (1) establishing a science-based understanding of fate, transport, and transformation of NH3 emitted from animal feeding operations (AFOs); (2) transferring the new knowledge to students, industry, regulators, and the public through various educational and outreach programs. The project will accomplish the following specific objectives:

1. Quantifying NH3 and particulate NH4+ dry deposition as impacted by NH3 emissions, land usage and meteorological conditions in AFO environments;
2. Estimating transformation of emitted NH3 to secondary iPM_{2.5} as impacted by NH3 emissions, distance from source, atmospheric chemical & meteorological conditions;
3. Quantifying the impacts of NH3 and NH4+ depositions on soil chemical and biological properties, including microbial biomass, stoichiometry of nitrogen transformations, pH.

In addition to working on this NSF project, this position will also have opportunities to be involved in grant writings, student mentoring, and project management.

Qualifications and skills:
- Ph.D. in Biological Engineering, Environmental Engineering, or a related field
- Research experience in air quality monitoring and instrumentation (preferable)
- Excellent English written and oral communication skill
- Ability to work both independently and collaboratively
- Productive publication record
How to apply?
Applicants should submit the following materials to the posting at https://jobs.ncsu.edu/postings/110793
- A cover
- Curriculum vitae
- Contact information for three references

Contact information:
For further information or question about this position, please contact Lingjuan Wang Li, Ph.D.
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Individuals with disabilities requiring disability-related accommodations in the application and interview process, please call 919-515-3148. Final candidates are subject to criminal & sex offender background checks. Some vacancies also require credit or motor vehicle checks. If highest degree is from an institution outside of the U.S., final candidates are required to have their degree verified at www.wes.org. Degree must be obtained prior to start date.

NC State University participates in E-Verify. Federal law requires all employers to verify the identity and employment eligibility of all persons hired to work in the United States.