

I am moving my lab from University of Tennessee to North Carolina State University in January 2015. I am looking for two postdoctoral associates on infectious disease modeling.

Two postdoctoral associate positions on infectious disease modeling are available in Cristina Lanzas' group (Department of Population Health and Pathobiology, College of Veterinary Medicine, North Carolina State University). Applicants with a background in mathematical modeling of infectious diseases and/or population biology are highly encouraged to apply. Our research combines data, epidemiological analysis and mathematical models to study transmission and disease control and it is currently supported by NIH and USDA.

The research focus will be the transmission and control of infectious diseases caused by enteric pathogens (specifically *Clostridium difficile*, Enterohaemorrhagic *E. coli*, and *Salmonella*), the use of mathematical modeling to study the antimicrobial resistance dissemination at multiple scales, and the effect of intestinal microbial disruption by treatments such as antibiotics on host susceptibility and pathogen transmission. A number of potential research projects are available and so the research focus may be tailored to the interests and skills of the individual.

Necessary Education, Experience Skills, Training and Education: The postdoctoral associates shall have a Ph.D. degree in a relevant quantitative discipline (ecology, epidemiology, engineering, applied mathematics, statistics and related fields) and have a deep interest in interdisciplinary collaboration, strong quantitative skills and good oral and writing skills are expected. The applicants must have experience in R and/or MATLAB. Experience developing and implementing agent-based models and/or multi-scale models is desirable.

The initial appointment will be for one year, with renewal for two or more years subject to satisfactory progress and mutual agreement. The salary will be commensurate with the qualifications and experience of the individuals. Review of applications will begin December 1st 2014 and will continue until suitable candidates are identified. Starting date can be as early as January 2015.

To apply for the position please follow the link: <https://jobs.ncsu.edu/postings/45084>

Applicant material includes a cover letter, CV and contact information for three references.

If you have questions specific to the positions please contact me at clanzas@ncsu.edu <<mailto:clanzas@ncsu.edu>>

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