

Department of Forestry and Environmental Resources (College of Natural Resources).
Landscape ecologists are encouraged to apply.

Cluster Hire in Geospatial Analytics of Emerging Plant Disease and Global Food Security

As part of the NC State Chancellor's Faculty Excellence Program (CFEP) we seek to hire a tenure-track faculty member at any rank to be part of an interdisciplinary faculty cluster on "Emerging Plant Disease and Global Food Security." This cluster will develop new approaches to better understand the dynamics of emerging infectious diseases caused by agricultural crop and forest pathogens or the pests that vector them, enabling a more rapid response to contain and limit potential damage by emerging threats. The cluster will develop and apply an expanding array of new tools and technologies to gather, analyze, synthesize, and share knowledge about the threat of emerging infectious diseases using novel biosurveillance methods, remote sensing and sensor networks, and spatial decision support systems.

We seek solution-driven research scholars who will develop cutting-edge geospatial analytics for deployment of next generation decision-making and knowledge-sharing frameworks designed to improve local and global efforts to manage emerging pathogens that threaten crop and forest production and food/fiber security. Examples include analytics for spatially-explicit prediction of transmission pathways and deploying rapid response strategies to detect and limit potential damage by emerging threats. Approaches that leverage frontiers in citizen science, such as crowdsourcing data collection with mobile technologies and engaging stakeholders with computational models, are all especially desirable.

The successful candidate should have a demonstrated record of scholarship and potential to develop a high-quality, extramurally-funded research program for participating in interdisciplinary research activities in the cluster. The Cluster member will be a Faculty Fellow in the Center for Geospatial Analytics (geospatial.ncsu.edu) with an academic appointment in the Department of Forestry and Environmental Resources (College of Natural Resources). The successful candidate will be expected to be integrally involved in the missions of the Center and department. The candidates should have a strong capacity to teach at both the undergraduate and graduate levels and become part of the integrated core team developing a Global Food Security Graduate Certificate Program. Mentoring doctoral students and postdoctoral fellows is expected. Priority will be given to candidates that have demonstrated interdisciplinary collaborations that cross over academic units.

The "Emerging Plant Disease and Global Food Security" cluster provides a dynamic environment for teaching and research collaborations across disciplines. NC State's location in the Research Triangle provides rich opportunities for interactions with industry; other universities, including Duke University and the University of North Carolina at Chapel Hill; and a number of government agencies. Opportunities for synergistic linkages with the Southeast Regional Climate Hub, USDA Center for Plant Health Science and Technology, and the Southern Region IPM Center are also highly anticipated.

The Chancellor's Faculty Excellence Program is bringing some of the best and brightest minds to join NC State University's interdisciplinary efforts to solve some of the globe's most significant problems. Guided by a strong strategic plan and an aggressive vision, the cluster

hiring program is adding new faculty members in select fields to add more breadth and depth to NC State's already-strong efforts. The Chancellor's Faculty Excellence Program marks a major initiative of the university's strategic plan, "The Pathway to the Future". Explore more information about the Chancellor's Faculty Excellence Program and this cluster at <http://workthatmatters.ncsu.edu/emerging-plant-disease/>.

Applicants must have a Ph.D. in plant pathology, plant sciences, geography, entomology, ecology or a relevant field and demonstrated expertise in geospatial analytics by the time of employment. Review of applications will begin September 15, 2016, and continue until the position is filled. For consideration, a curriculum vitae, cover letter, and contact information for references are requested. Materials for consideration will be accepted electronically via <http://jobs.ncsu.edu/postings/58983>. A comprehensive review of applications will begin September 15 and continue until the position is filled. The target start date for is August 2017; however, a mutually beneficial time may be negotiated. Questions about the position may be directed with a subject line "CFEPGFS inquiry to globalfoodsecuritycluster@ncsu.edu, Dr. Jean Ristaino (Jean_Ristaino@ncsu.edu), or Dr. Ross K. Meentemeyer (rkmeente@ncsu.edu).

NC State University is an equal opportunity and affirmative action employer. All qualified applicants will receive consideration for employment without regard to race, color, national origin, religion, sex, gender identity, age, sexual orientation, genetic information, status as an individual with a disability, or status as a protected veteran. Persons with disabilities requiring accommodations in the application process please call (919) 515-3148.