



THE OHIO STATE UNIVERSITY

Department: Molecular Genetics, Plant Pathology, and Public Health
Position: Emerging Infectious Disease Ecology, Predictive Ecosystem Modeling, and Environmental Health Sciences
Rank: Open

Description:

The Colleges of Arts & Sciences; Food, Agricultural and Environmental Sciences; and Public Health are conducting a joint search for three tenure-track/tenured faculty to study ecological drivers related to emerging and re-emerging plant, animal, or human diseases. These positions represent one of four cluster hires as part of a substantial university investment (Discovery Theme) to significantly enhance cutting-edge research on infectious disease detection, treatment, and prevention (<http://discovery.osu.edu/focus-areas/infectious-diseases>).

Predictive Ecosystem Modeling (Assistant/Associate/Full-Professor, College of Arts and Sciences, Department of Molecular Genetics): Expertise modeling the ecology of diseases based on host-microbe-environment interactions and their genetic underpinnings, with the long-term goal of predicting the evolutionary trajectories of emerging and re-emerging pathogens. How climate change and other human activities might alter the distribution and impact of pathogens and their vectors is also of interest.

Emerging Infectious Disease Ecology (Assistant/Associate Professor; College of Food, Agricultural, and Environmental Sciences; Department of Plant Pathology): Expertise in assessing and modeling plant health in ecosystem contexts, including agro-forest, urban, and/or natural environments impacted directly or indirectly by human and animal activity. Topics of interest include, but are not limited to, epidemiology of invasive plant pathogens, and emergence and evolution of invasive traits.

Environmental Health Science (Assistant/Associate Professor, College of Public Health, Division of Environmental Health Sciences): Expertise characterizing environmental settings for presence or absence of potential pathogens, including mutagenic changes related to microbial resistance and persistence relative to the dynamics of host-pathogen interactions. The ability of ecosystems to support human needs and to inhibit or encourage the spread of pathogens is also of interest.

The Departments, Colleges, and University provide a generous start-up package and state-of-the-art core facilities both on the Columbus campus (where these positions will be located) and also at the Ohio Agricultural Research and Development Center in Wooster. OSU also offers a collaborative and collegial environment, multiple programs and centers focused on infectious disease research, and interdisciplinary graduate programs. Columbus offers diverse cultural and recreational opportunities, affordable housing, and excellent schools.

Qualifications:

Successful candidates are expected to have or to develop an independent, interdisciplinary, and internationally recognized research program with extramural funding. They will also engage with a highly collaborative, trans-disciplinary community of scholars to develop innovative solutions to global emergence and re-emergence of infectious diseases. Applicants should have a PhD or equivalent degree, postdoctoral training, a record of research excellence, and demonstrated expertise in one or more of the areas described above. Appointment is contingent on the university's verification of credentials and other information required by law and/or university policies, including but not limited to a criminal background check.

About Columbus:

The OSU campus is located in Columbus, the capital city of Ohio. Columbus is the center of a rapidly growing and diverse metropolitan area with a population of over 1.5 million. The area offers a wide range of affordable housing, many cultural and recreational opportunities, excellent schools, and a strong economy based on government as well as service, transportation

and technology industries (see <http://liveworkplaycolumbus.com/>). Columbus has consistently been rated as one of the Top U.S. cities for quality of life, and was selected as one of the Top 10 cities for African Americans to live, work, and play by *Black Enterprise* magazine. Additional information about the Columbus area is available at <http://www.columbus.org>

Application Instructions:

Please apply online through Academic Jobs Online at: <https://academicjobsonline.org/ajo/jobs/6326>. Complete applications include a cover letter, a C.V., a summary of research accomplishments and future directions highlighting relevance to one or more of the hiring areas, a statement of teaching philosophy, and names and contact information of at least three potential references. Review of applications will commence November 1 and continue until the positions are filled. Inquiries may be addressed to Dr. David M. Bisaro, Chair of the Search Committee (bisaro.1@osu.edu).

The Ohio State University is committed to establishing a culturally and intellectually diverse environment, encouraging all members of our learning community to reach their full potential. We are responsive to dual-career families and strongly promote work-life balance to support our community members through a suite of institutionalized policies. We are an NSF Advance Institution and a member of the Ohio/Western Pennsylvania/West Virginia Higher Education Recruitment Consortium (HERC).

The Ohio State University is an equal opportunity employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, disability status, or protected veteran status.