The Department of Microbiology microbiology.osu.edu in the College of Arts & Sciences at The Ohio State University invites applications for two tenure-track faculty positions specializing in systems biology approaches to address modern challenges in (1) antimicrobial therapeutics in partnership with the College of Pharmacy (pharmacy.osu.edu); and (2) integration of pathogen and host biology in partnership with the College of Medicine, Department of Microbial Infection and Immunity (medicine.osu.edu/mii).

Applicants should have established expertise in the application of systems biology/high throughput “omics” approaches. The applicant will be expected to apply such approaches to study bacterial systems, focusing on in-depth understanding of metabolic capacity and dynamics, microbial responses to antibiotic stresses or interactions with host cells, or other aspects of pathogen biology. Successful candidates will be expected to synergize with Ohio State's current infectious disease investigators, centers, and programs (e.g. phpid.osu.edu, cmib.osu.edu) to identify points of therapeutic intervention for antimicrobial design or novel aspects of pathogen-host biology.

The positions contribute to four hiring clusters that are part of a substantial university investment (Discovery Themes) to significantly enhance cutting-edge research on infectious disease detection, treatment, and prevention (discovery.osu.edu/focus-areas/infectious-diseases). These new investments build upon existing strengths and a culture of academic collaboration to foster cross-disciplinary research with sustained impact. The microbial systems biology positions will connect with planned hires in drug discovery, pharmacokinetics and pharmacodynamics, innate and adaptive immune cell-pathogen interactions, and microbial biofilms as well as build on foundations in data analytics currently being developed as part of the Discovery Themes.

Successful applicants will be expected to develop an extramurally-funded research program and to contribute to the teaching (graduate and undergraduate) and service missions of the University.

Qualifications:
M.D. or Ph.D. in Microbiology, Cell Biology, Systems Biology or related field. Demonstrated research productivity and evidence of, or potential for, an independently-funded research program. Experience working with interdisciplinary research teams and mentoring members of underrepresented groups.

About Columbus:
The Ohio State University 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:
Apply to Academic Jobs Online at: https://academicjobsonline.org/ajo/jobs/5509. Complete applications include: (1) curriculum vitae, (2) a summary of past research accomplishments highlighting their relevance to systems biology, (3) a statement of
future research plans, (4) a statement of teaching philosophy and potential teaching roles, and (5) names and emails of at least three professional references. Review of applications will began on July 1 and continue until the positions are filled.

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. Ohio State is an NSF Advance Institution