Multiple postdoctoral positions for team science investigation of phage-microbiome interactions

The Microbiome Metabolic Engineering Theme and Center for Artificial Intelligence and Modeling at the University of Illinois Carl R. Woese Institute for Genomic Biology seek creative and energetic applicants for 7 postdoctoral associate positions to work together on an exciting team science project studying oral microbes, including *Streptococcus*, *Porphyromonas*, and *Fusobacterium* species, and their viruses (i.e. phages). The project will leverage high-throughput bacteria/phage isolation and computational approaches to characterize and learn the rules of microbe-phage interactions, with the ultimate goal of developing translational strategies for promoting oral health in diverse populations. Successful candidates will have access to training and mentoring from a team of scientists and engineers with expertise in bacterial genetics, phage biology, microbiome studies, computational biology, and machine learning --Asma Hatoum-Aslan, Cari Vanderpool, Mike Miller, Chris Gaulke, Sergei Maslov, and Olgica Milenkovic. The positions will offer excellent opportunities for interdisciplinary training and a vibrant work environment at the Carl R. Woese Institute for Genomic Biology (https://www.igb.illinois.edu/).

Position requirements:
Successful candidates must hold a Ph.D. degree in Microbiology, Computational Biology, or a related discipline and will have strong technical skills in one or more of the following areas: bacterial genetics, environmental microbiology, anaerobic microbiology, phage biology, biochemistry, genomic biology, bioinformatics, machine learning, and mechanistic modeling of ecosystems. Successful candidates will also have strong communication skills, be detail-oriented, and be willing to actively engage with a collaborative interdisciplinary team.

Salary and benefits: The University of Illinois at Urbana-Champaign is an equal opportunity employer and offers excellent health care benefits. The annual starting salary for these positions is $70,000. Questions about these positions or applications including a letter of application, CV and the names of three referees can be addressed by email to <ahatoum@illinois.edu>.

The start-date is flexible and no sooner than November 1, 2024. Applications will be reviewed as they are received.