

Name of Positions:

Population and phylogenomics

Name of College/Department/School/Division: College of Agricultural Sciences -
Department of Botany and Plant Pathology

Location: Oregon State University – Corvallis, Oregon

Close dates:

Until filled

Summary: The Department of Botany and Plant Pathology at Oregon State University invites applications for one full-time postdoctoral scholar position (1.0 FTE; 12-months). The position is supported by a grant awarded to Drs. Uehling and Grunwald (USDA-ARS) and will provide a competitive stipend and health insurance for up to three years, subject to satisfactory performance. Start dates are flexible.

Successful applicants will join a group that researches diverse aspects of fungal and oomycete phylo- and population genomics. The candidate will develop computational resources for whole genome sequence-based identification of emerging pathogens of plants and animals to accelerate outbreak detection for faster interventions to slow pathogen dissemination in agricultural and natural systems. The successful applicants will work in a large, multi-laboratory trans-disciplinary research team, help mentor students, as well as lead and support manuscript and grant proposal writing. Successful applicants will also have opportunities to develop their own research, write competitive fellowship proposals, and develop critical career skills under the mentorship of Drs. Uehling and Grunwald. Articles exemplifying research areas include:

1. Computational pipeline: <https://doi.org/10.1371/journal.pcbi.1005404>
2. Population and phylogenomics: <https://doi.org/10.1126/science.aba5256>,
<https://doi.org/10.1128/mBio.00326-20>, <https://doi.org/10.1094/MPMI-06-22-0133-R>
3. Detection and surveillance: <https://doi.org/10.1038/s42003-022-03394-w>

Required Qualifications: Minimum of a PhD in biology, computer science, bioinformatics, evolutionary biology and related fields OR experience in computational biology, generating genomics data sets, programming in Python and R. Applicants must have at least 2.5 years of eligibility for a postdoctoral scholar position, e.g., receive PhD prior to starting position with no or minimal prior postdoctoral experience. Demonstrated productivity, capacity for independent research including well documented code generation, and intellectual creativity.

Preferred Qualifications: Research experience in microbiology, mycology, population/comparative genomics, and/or computational biology. Commitment to promoting a diverse and inclusive environment. Strong writing skills and publication record, public speaking experience, working knowledge of Microsoft Office Programs. Demonstrated leadership and effectiveness in working collaboratively. Excellent oral and written communication skills.

Application Process: Please provide a cover letter, CV, as well as names and contact information for three references. Application material or relevant inquiries may be sent

electronically to:

Jessie Uehling/Nik Grunwald
Department of Botany and Plant Pathology
Oregon State University
2082 Cordley Hall
Corvallis, OR 97331
(541) 737-5278
jessie.uehling@oregonstate.edu;
nik.grunwald@usda.gov