POSITION DESCRIPTION

Department of Botany and Plant Pathology, Oregon State University

Job title: Postdoctoral Researcher. Pathogen molecular biologist

Position title: Postdoctoral scholar/Research associate (postdoc)

A postdoctoral position is open to work on the epigenetics mechanism underlying the phenotypic adaptability and plasticity of oomycete pathogens, particularly the soybean pathogen *Phytophthora sojae*. The appointee will work with Dr. Brett Tyler (Department of Botany and Plant Pathology and Center for Genome Research and Biocomputing). The position will be renewed on a yearly basis and is funded for at least two years. The successful candidate will be appointed either as a postdoctoral scholar or as a postdoctoral associate, depending on experience.

**Responsibilities:**
- Isolate and characterize *Phytophthora sojae* mutants that have adapted overcome the loss of specific virulence genes
- Identify and characterize epigenetic changes in the mutants
- Characterize genes that have undergone epigenetic changes in the mutants
- Publish the research results in peer-reviewed high-impact scientific journals.
- OSU at scientific meetings by presenting original research.
- Take the initiative in finding solutions to scientific problems that arise in day-to-day research.
- Collegially engage in collaborative work with peers with the aim to achieve the above objectives.

**Minimum Qualifications for a Postdoctoral Scholar include:**
- PhD in Microbiology, Plant Biology, Genetics, Biochemistry, or related field.
- At least four years’ experience in molecular biology at the predoctoral or postdoctoral level
- Demonstrated creativity, independence, high motivation, and good communication skills, both orally and written.
- Strong work habits and the ability to work independently as well as with research group.

**To be considered for a Research Associate (Post Doc) position, applicants must meet the minimum qualifications for the Postdoctoral Scholar listed above, as well as the additional minimum qualifications below:**
- At least three years’ experience in molecular biology at postdoctoral level

**Preferences:**
- Experience in fungal or oomycete molecular biology
- Experience in plant-microbe interactions
- Experience in genomics and bioinformatics
- Experience in analysis of small RNAs
- Experience in analysis of chromatin modifications
- Experience in developing publications based on individual research.