

**Postdoctoral researcher in molecular plant-nematode interactions**

**Purdue Nematology Lab**

**Department of Botany & Plant Pathology**

**Purdue University**

*### IMPORTANT: Do **NOT** apply via this website. Please read the job advertisement below to learn how to apply for this position. ###*

The Nematology lab at Purdue University (<https://ag.purdue.edu/btny/Pages/Profile.aspx?strAlias=leizhang&intDirDeptID=10>) is seeking a post-doctoral researcher to study molecular plant-nematode interactions. The Nematology lab is part of Department of Botany & Plant Pathology, and Department of Entomology at College of Agriculture at Purdue. The Nematology lab is aimed to enhance understanding of plant-nematode interactions and nematode biology at molecular, organismal and population levels using a diverse array of approaches. The goal of research is to develop effective and sustainable tactics for nematode control in agriculture.

**Job Summary:** The appointee will conduct research to study effector proteins of root-knot nematodes and induced host resistance to plant-parasitic nematodes. Responsibilities and duties of this position include, but are not limited to the following: (1) identify and study plant proteins targeted by nematode-secreted effectors using yeast two-hybrid, Co-IP and transgenic approaches; (2) transcriptome/RNA-seq analysis of plant responses to nematode effectors; (3) conduct nematode bioassays on Arabidopsis, tomato and soybean plants at different growth conditions; (4) collect, analyze, summarize data and maintain records; (5) prepare verbal and written reports of results to supervisor.

**Required qualifications:**

- A PhD in plant pathology, plant science, or a related discipline.
- Experience and demonstrated skills in molecular research in plants or plant-pathogen interactions.
- Prior experience in nematology is **NOT** required.
- Excellent communication and writing skills.
- Proven ability to work independently and to work in teams.

**Preferred qualifications:**

- Experience with analysis of NGS data and execution of bioinformatic pipelines.

**Position term:** initially for 12 months and can be renewed based on performance.

**Salary and benefits:** Salary will be commensurate with qualifications and experience. Benefits are provided via Purdue University.

**Anticipated start date:** December 1<sup>st</sup>, 2020 and is negotiable.

**How to apply:** Screening of applications will begin on October 16, 2020 and will continue until the position has been filled.

Candidates should apply directly to Dr. Lei Zhang via email to ([leizhang@purdue.edu](mailto:leizhang@purdue.edu)) by submitting a single PDF file containing: (1) cover letter; (2) current CV; (3) contact information of three references. The subject of the email should be "**Postdoctoral researcher in nematology**". The cover letter should address your interest in this position and how you meet the qualifications, and your career goal.

The College of Agriculture at Purdue University is one of the world's leading colleges of agricultural, food, life, and natural resource sciences and ranked sixth in the US in the 2019 QS World University Rankings. Purdue University is an EOE/AA employer. All individuals, including minorities, women, individuals with disabilities, and veterans are encouraged to apply.