



COLLEGE OF AGRICULTURAL AND  
ENVIRONMENTAL SCIENCES  
AGRICULTURAL EXPERIMENT STATION  
DEPARTMENT OF PLANT PATHOLOGY  
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ONE SHIELDS AVENUE  
DAVIS, CALIFORNIA 95616-8680

## *Open recruitment opportunity*

### **Postdoctoral Scholar in the Department of Plant Pathology in the Dr. Greg Browne Lab**

You must apply through the RECRUIT site: <https://recruit.ucdavis.edu/apply/JPF01523>

- Agricultural and Environmental Sciences - PLANT PATHOLOGY

#### RECRUITMENT PERIOD

**Open date:** March 21st, 2017

**Next review date:** May 31<sup>st</sup>, 2017

Apply by this date to ensure full consideration by the committee.

**Final date:** June 30th, 2017

Applications will continue to be accepted until this date, but those received after the review date will only be considered if the position has not yet been filled.

#### DESCRIPTION

##### **Job Details:**

The successful candidate will examine the microbial ecology and management of key “soil health” problems that affect almond and other stone fruit orchards when they are replanted. Areas of focus could include: (i) metagenomic and metatranscriptomic examinations of Prunus replant disease (PRD, a Prunus-specific growth suppression apparently mediated by an ill-defined microbial complex in successive stone fruit and nut plantings); (ii) optimization of organic soil amendment-based strategies, including anaerobic soil disinfestation, to manage PRD; and (iii) determining impacts of whole orchard recycling (i.e., the process of incorporating old orchard residues into the resident soil before replanting instead of removing or burning the residues) and anaerobic soil disinfestation on soil microbial communities and replanted almond orchard growth. The research will involve an interdisciplinary, collaborative team with collective expertise in plant pathology, horticulture, soil science, metagenomics, and bioinformatics. The successful candidate will need to work effectively as a team member in lab, greenhouse, and field settings. The lab is committed to development of sustainable, practical management strategies for soilborne diseases of fruit and nut trees. Priority will be given to qualified candidates that can start research in spring 2017. The initial appointment will be for 1 year, with opportunity for renewal.

**Qualifications:**

The position requires a recent Ph.D. degree in plant pathology, soil microbiology, or a closely related field. Knowledge and experience with modern molecular methods used in environmental examinations (e.g., extraction and purification of nucleic acids from complex samples, PCR, metagenomics, metatranscriptomics, metabolomics, and proteomics) are required. Motivation to solve complex agricultural problems and the ability to work within a collaborative team are also essential.

**Work location:**

USDA-ARS lab, Plant Pathology Department, UC Davis, One Shields Ave, Davis, CA 95616, USA. Position will involve travel to various field sites in California. UC Davis is a Land Grant University. For more information, see <https://www.ucdavis.edu/>  
For additional information, contact Dr. Greg Browne, (530)754-9351 or [gtbrowne@ucdavis.edu](mailto:gtbrowne@ucdavis.edu)

The ideal candidate will have strong interpersonal, communication, and decision-making skills; as well as the ability to work well independently and as part of a team.

UC Davis is an affirmative action/equal employment opportunity employer and is dedicated to recruiting a diverse faculty community. We welcome all qualified applicants to apply, including women, minorities, veterans and individuals with disabilities.

UC Davis is a smoke- and tobacco free-campus effective January 1, 2014. Smoking, the use of smokeless tobacco products and the use of unregulated nicotine products (e-cigarettes) will be strictly prohibited on any property owned or leased by UC Davis -- indoors and outdoors including parking lots and residential spaces.

**JOB LOCATION: Davis, CA****REQUIREMENTS:****DOCUMENTS**

- Curriculum Vitae - Your most recently updated C.V.
- Cover Letter
- Listing of pertinent coursework - Please provide official or unofficial transcripts
- Statement of Contributions to Diversity - Diversity contributions documented in the application file will be used to evaluate applicants.  
Visit [http://academicaffairs.ucdavis.edu/diversity/equity\\_inclusion/index.html](http://academicaffairs.ucdavis.edu/diversity/equity_inclusion/index.html) for guidelines about writing a diversity statement and why one is requested.

**REFERENCES**

3-5 references required (contact information only)