

PLANT BIOLOGY

Postdoc Position

POSITION OVERVIEW

Salary range: The posted UC salary scales (<https://www.ucop.edu/academic-personnel-programs/compensation/index.html>) set the minimum pay determined by rank and/or step at appointment. See Table 23: Postdoctoral Scholar-Employee, Postdoctoral Scholar-Fellow, Postdoctoral Scholar-Paid Direct, Fiscal Year (<https://www.ucop.edu/academic-personnel-programs/files/2023-24/oct-2023-acad-salary-scales/t23.pdf>). The level 0 salary is \$64,480.

POSITION DESCRIPTION

[Dr. Xiaosa \(Jack\) Xu](#) Lab in the Department of Plant Biology at the University of California, Davis is seeking a highly motivated and independent individual who is interested in pursuing an academic career in plant developmental genetics and single-cell genomics research. The postdoctoral scholar who secures this position will use cutting-edge single-cell genomics, spatial transcriptomics, and genome editing approaches to identify and characterize key genes in plant development and evolution, and inform crop improvement.

The successful applicant will be responsible for conducting single-cell genomics and spatial transcriptomics experiments and data analysis, followed by genome editing validation. The applicant will work closely with a team in the Xu lab, as well as with collaborators at UC Davis and other institutions. They will have the opportunity to mentor graduate and undergraduate students, participate in the preparation and writing of manuscripts and grants. The candidate will also have opportunities to attend workshops/courses as required by ongoing and future research projects, such as the [Frontiers and Techniques in Plant Science course](#) at Cold Spring Harbor Laboratory.

UC Davis is a vibrant academic environment and offers multiple opportunities for attending seminars and interacting with other groups that are interested in crop improvement, molecular and cell biology, and computational biology.

Xu Lab respects diversity and promotes equity and inclusion. Appreciation and respect for human diversity is a must.



QUALIFICATIONS

Basic Qualifications (required at the time of application)

- Ph.D. in the areas of Computational Biology, Plant Biology, Developmental Biology, Genetics, Evolution, Systems Biology, or Molecular and Cell Biology. Applicants do not need to have their degree at the time of application but must have it before starting the position.
- Efficient utilization of computer clusters and programming in Linux, R, etc.
- Familiarity and working knowledge of standard bioinformatics tools, packages, algorithms, and databases for the analysis of genomics data.
- Experience in experiments in fields, greenhouses, **or** growth chambers.
- Experience in single cell/nucleus transcriptomics **or** functional genomics.
- Experience in CRISPR genome editing **or** molecular cloning.
- Excellent written and verbal communication skills.
- Highly motivated and can manage multiple projects.

Preferred Qualifications

- Experience in building NGS libraries
- Experience in confocal microscopy.
- Experience in tissue culture and/or transformation.

APPLICATION REQUIREMENTS

Document requirements.

- Curriculum Vitae
- Cover Letter
- Statement of Research
- Statement of Teaching and/or Mentoring (Optional)
- Statement of Contributions to Diversity, Equity, and Inclusion - Contributions to diversity, equity, and inclusion documented in the application file will be used to evaluate applicants (Optional). Visit <https://academicaffairs.ucdavis.edu/faculty-equity-and-inclusion> for guidelines.
- List of Publications

Reference requirements:

- 3 required (contact information only).

Email application documents to Dr. Xiaosa (Jack) Xu: xjkxu@ucdavis.edu

CAMPUS INFORMATION

- The University of California, Davis commits to inclusion excellence by advancing equity, diversity and inclusion in all that we do. We are an Affirmative Action/Equal Opportunity employer, and particularly encourage applications from members of historically underrepresented racial/ethnic groups, women, individuals with disabilities, veterans, LGBTQ community members, and others who demonstrate the ability to help us achieve our vision of a diverse and inclusive community.
- Under Federal law, the University of California may employ only individuals who are legally able to work in the United States as established by providing documents as specified in the Immigration Reform and Control Act of 1986. Certain UC Davis positions funded by federal contracts or sub-contracts require the selected candidate to pass an E-Verify check. More information is available <http://www.uscis.gov/everify>.
- UC Davis is a smoke & tobacco-free campus (<http://breathefree.ucdavis.edu/>). If you need accommodation due to a disability, please contact the recruiting department



JOB LOCATION: Davis, CA