



## Postdoctoral Researcher in Stem Cell and Developmental Biology of the Uterus and Placenta

The Zhang Lab in the Departments of Physiology & Membrane Biology (PMB) and Obstetrics & Gynecology (OB/GYN) at the University of California, Davis ([zhang.faculty.ucdavis.edu](http://zhang.faculty.ucdavis.edu)) is in search of a highly motivated postdoctoral scholar to work on uterine, placental, and pregnancy biology. Located on the Davis campus, our group is broadly interested in mammalian stem cell biology, reproduction, and development. We use cutting-edge single-cell, spatial, surgical, and organoid approaches to investigate the uterine endometrium and maternal-fetal interface, with the goal of improving female and fetal health.

### What we are seeking

The successful candidate will have a strong track record of rigorous research experience in the biosciences with high potential for further scientific and professional growth. "Wet lab" candidates should have a strong background in developmental, molecular, cellular, and/or reproductive biology, or related disciplines. "Dry lab" candidates should have a strong foundation in bioinformatics and prior experience analyzing single-cell RNA-seq and other high-throughput datasets (e.g. RNA-seq, ATAC-seq, CUT&Tag, proteomics, etc.). Candidates are expected to be capable of working independently, including staying abreast of current literature and designing and executing experiments; collaborating effectively within a multidisciplinary team; and clearly communicating ideas and results in internal meetings, at international conferences, and in publications and grants. In addition, this position includes training and mentoring of other lab members as well as assisting with laboratory maintenance.

### What we offer

The successful candidate will enjoy a vibrant and stimulating lab and departmental environment. We offer multiple exciting opportunities in setting their own and the lab's research directions, a strong culture of collaboration, training, and mentorship, and access to cutting-edge instrumentation and facilities. The candidate will be able to mentor junior colleagues, engage in fellowship and grant writing, and present at symposia and conferences, all excellent training for a variety of career paths. We offer many cross-disciplinary collaborative opportunities at UC Davis and beyond, including with the UC Davis School of Veterinary Medicine and the California National Primate Center.

Several projects are currently available, including:

1. Endometrial stem cells, their niche, and hormone-mediated intercellular communication during the menstrual cycle
2. Embryo implantation and placentation in both a physiological context and following uterine injury and regeneration
3. Modeling human uterine and maternal-fetal interface function and associated conditions (e.g. endometriosis, preeclampsia, etc.) using novel human endometrial and placental organoids

UC Davis is a supportive, diverse, and collaborative community, ideally situated in the peaceful, family-friendly town of Davis in the sunny Sacramento Valley, located between the San Francisco Bay Area and beautiful Lake Tahoe.

### Requirements

- Ph.D. or M.D./Ph.D. degree in Molecular and Cellular Biology, Developmental Biology, Reproductive Biology, Neuroscience, Bioinformatics, or related field, anticipated to be completed by the start date of the position
- A strong track record of research achievement
- Proficiency in multiple wet lab techniques OR bioinformatic approaches
- Prior experience in one or more of the following areas is highly desired but not necessary: advanced microscopy, mouse genetics, single-cell transcriptomics, 3D organoids, uterine biology, placental biology, reproduction

### Salary

The [posted UC salary scales](#) 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](#). The salary range for this position is \$64,480 – \$69,342. "Off-scale salaries", i.e., a salary that is higher than the published system-wide salary at the designated rank and step, are offered when necessary to meet competitive conditions, qualifications, and experience.

To apply, please email Dr. Elisa Zhang ([elszhang@ucdavis.edu](mailto:elszhang@ucdavis.edu)) with the following:

1. Cover letter, incl. your scientific interests in relation to the lab's focus and a summary of research accomplishments
2. Curriculum vitae (C.V.)
3. Contact information for three references

Applications will be accepted on a rolling basis. For more information, visit [zhang.faculty.ucdavis.edu](http://zhang.faculty.ucdavis.edu) or contact Dr. Zhang.



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UC Davis is a smoke and tobacco-free campus (<http://breathefree.ucdavis.edu/>).

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. For the complete University of California nondiscrimination and affirmative action policy see: <http://policy.ucop.edu/doc/4000376/NondiscrimAffirmAct>

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 at: <http://www.uscis.gov/e-verify>

The University of California, Davis (UC Davis) is committed to inclusive excellence by advancing equity, diversity and inclusion in all that we do. UC Davis celebrates the multi-cultural diversity of its community by creating a welcoming and inclusive environment demonstrated through a variety of resources and programs available to academics, staff, and students. Diversity, equity, inclusion, and belonging are core values of UC Davis that are embedded within our [Principles of Community](#) and are tied with how to best serve our student population. Our excellence in research, teaching, and service can best be fully realized by members of our academic community who share our commitment to these values, which are included in our [Diversity and Inclusion Strategic Vision](#), our strategic plan: "To Boldly Go," our Principles of Community, the [Office of Academic Affairs' Mission Statement](#), and the [UC Board of Regents Policy 4400: Policy on University of California Diversity Statement](#). UC Davis is making important progress towards our goal of achieving federal designation as a [Hispanic-Serving Institution and an Asian American, Native American, and Pacific Islander-Serving Institution](#). The [Office of Diversity, Equity, and Inclusion](#) offers a plethora of resources on their website, and the [Office of Health Equity, Diversity, and Inclusion \(HEDI\)](#) has outlined similar goals in their Anti-Racism and DEI Action Plan." There are a plethora of links available on the [About Us](#) webpage where you can learn more about our Administration, Diversity and Inclusion, Rankings, Locations, Native American Land Acknowledgement, Sustainability, Visiting UC Davis, UC Davis Health, and Campus Safety.

The university is consistently ranked among the top institutions in the world for campus sustainability practices by the [UI Green Metric World University Rankings](#). UC Davis is focused on achieving net-zero greenhouse gas emissions and repeatedly shown its [commitment to preserving a healthy and sustainable environment for generations to come](#).

As a University employee, you will be required to comply with all applicable University policies and/or collective bargaining agreements, as may be amended from time to time. Federal, state, or local government directives may impose additional requirements.