



Department of Surgical & Radiological Sciences

- POSITIONS AVAILABLE:** Postdoctoral Fellowship in Atomic Force Microscopy
Postdoctoral Fellowship in Cellular & Molecular Biology
- SALARY:** Dependent on qualifications and experience
- START DATE:** Negotiable; Spring/Summer 2019 Preferred
- QUALIFICATIONS:** **Both positions:** PhD in biological sciences, bioengineering or materials science is required. Record of success publishing in scientific journals and presenting at national/international meetings is required. Must possess excellent interpersonal and communication skills and a demonstrated ability to work with others in a collegial team atmosphere. Experience mentoring undergraduates in laboratory skills preferred. Experience preparing research grants preferred. **AFM position:** Extensive experience with Atomic Force Microscopy (AFM) is required. Experience in measurement of biological tissues and cultured cells necessary. Knowledge of Igor and the Asylum AFM preferred. Knowledge of biomaterials preferred. **Cell position:** Experience in molecular biology techniques and primary cell culture required. Detailed knowledge of cell signaling required.
- RESPONSIBILITIES:** **Research:** **For the AFM position,** the successful candidate must provide specialized, technical expertise in AFM measurement and analysis to an active strongly interdisciplinary research program in the Murphy-Russell-Thomasy lab (<https://mrtvisionsciences.com/>) investigating topics relevant to the research areas of Ophthalmology and Cellular Biology. Programming experience also preferred. **For the cell position,** the successful candidate will be expected to conduct research using cellular and molecular biologic techniques on the impact of biophysical cues on modulating cellular behaviors. **For both positions,** Current projects investigate how changes in the compliance of the extracellular matrix influences cell compliance and how consequently a change in the cellular cytoskeleton leads to changes in the extracellular matrix. Collaborate with Principal Investigators in planning of project research goals and methods. Supervise students regarding the technical aspects of the research, including methods development, troubleshooting problems, interpreting results and planning follow-up experiments. Publish research results in peer-reviewed journals, books and other outlets in collaboration with the PIs or other members of the research team. Assist in preparation of research grant proposals and grant award compliance. **Professional Competence:** Participate in professional societies and conferences appropriate to specific field. Serve as a reviewer of research proposals and scientific publications as appropriate. Attend seminars to present research results and give oral presentations to public and professional interest groups or other settings as appropriate. **Service:** University and public service through committee work, participation in professional organizations, and other appropriate means is encouraged but not required.
- APPLICATION PROCESS:** To receive fullest consideration, applications must be received by **Monday, April 1, 2019;** position open until filled. Interested applicants should submit:
- 1) a letter of intent outlining special interest in the position, overall related qualifications and experience and career goals (**please specify which position you are applying for**); 2) curriculum vitae; and
 - 3) the names and addresses of three professional references to:
 - Christopher J Murphy, DVM, PhD, Paul Russell PhD and Sara M Thomasy DVM, PhD
- Attention: Gail Johnson, Academic Personnel Coordinator
gdjohnson@ucdavis.edu
Department of Surgical & Radiological Sciences

School of Veterinary Medicine
University of California – Davis
Davis, CA 95616

The University of California, Davis and the Department of Surgical & Radiological Sciences, School of Veterinary Medicine, are interested in candidates who are committed to the highest standards of scholarship and professional activities, and to the development of a campus climate that supports equality and diversity. The University of California is an affirmative action/equal opportunity employer.