UNIVERSITY OF CALIFORNIA, DAVIS
Department of Physiology & Membrane Biology

Recruitment Period

Open date: June 21, 2018

Next review date: July 5, 2018
Apply by this date to ensure full consideration by the committee.

Final date: June 30, 2019
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:
The Department of Physiology & Membrane Biology at the University of California, Davis, School of Medicine, seeks to hire a full-time employee as an Assistant Project Scientist to perform research functions in cardiac physiology.

Project Scientists are members of the Academic Federation. The Project Scientist makes significant and creative contributions to a research or creative project in his/her academic discipline. The appointee possesses the subject matter expertise and the creative energy necessary to function at a high level of competence. The appointee will participate in activities to increase, improve, or upgrade competency. Appointees with Project Scientist titles may engage in University and public service. They do not have teaching responsibilities. Although the Project Scientist is expected to work independently under the general guidance of an academic member with an independent research program (i.e., Professor, Professional Researcher, Specialist in Cooperative Extension, etc.), he/she is not required to develop an independent research program or reputation. He/she will carry out research or creative programs with supervision by an individual in an academic title that carries with it automatic Principal status. The Project Scientist does not usually serve as a Principal Investigator but may do so by exception.

MAJOR RESPONSIBILITIES AND DESIGNATED AREAS OF EXPERTISE:

I. RESEARCH IN SPECIALIZED AREAS (90% EFFORT)
Research activity (60%)
This position requires creative contributions and collaborative development of an active research program examining the mechanism(s) underlying alterations in neuronal excitability across several different neurodegenerative disorders. The primary research project is to develop and apply advanced instrumentation allowing whole brain and single neuron imaging at very high-speed spatiotemporal resolution. The candidate will apply this novel instrumentation to the study of ion channel function and downstream lipid signaling networks across different neuron populations of genetically modified animals.

The candidate will utilize electrophysiology, TIRF, confocal, and super resolution microscopy. The candidate will also develop algorithms for the analysis of images and electrical signals across. He/she is also expected to instruct graduate students how to use novel imaging instrumentation and all associated image processing and data analysis software.

Publication (30%)
The candidate will present research results on conferences and publish research results in peer-reviewed journals, books, and other outlets either independently or in collaboration with the PIs or other members of the research team.
Grant Acquisition (10%)
The candidate will assist in acquiring proposals for funding from federal and state agencies and other funding organizations. The candidate will prepare and assist in the preparation of reports as required by granting agencies. The candidate will interact with funding agencies and prepare modifications of budgets and other grant components, as needed.

II. PROFESSIONAL COMPETENCE AND ACTIVITY (10% EFFORT)
The candidate will participate in professional societies and conferences appropriate to his/her specific field of neuroscience/biophysics/cell biology and may serve as a reviewer of research proposals and scientific publications as appropriate. The candidate will attend seminars to present research results and may give oral presentations to public and professional interest groups.

When appropriate, the candidate may coordinate and/or give presentations at seminars, laboratory meetings or educational functions.

III. UNIVERSITY AND PUBLIC SERVICE (0% EFFORT)
The candidate is not expected to engage in public service and/or teaching classroom courses.

BASIC QUALIFICATIONS:
- Ph.D. in the fields related to biological sciences
- Five or more years of research experience in the area of neuroscience, specifically related to the area of lipid-regulation of ion channels, using electrophysiological and optical imaging methods
- Excellent knowledge of brain anatomy and region-specific function
- Extensive experience making electrophysiological measurements from organotypic hippocampal slices
- Extensive experience related to super-resolution imaging and image processing
- Prior experience quantifying and analyzing cellular lipids using mass spectrometry
- Required animal handling experience
- Excellent publication record and communication skills

SALARY RANGE: Salary will be commensurate with education and experience

TERM OF APPOINTMENT: Fulltime 100%, 12 months (initial). Expected start date is September 1, 2018

To Apply:
To apply, please go to the following link: https://recruit.ucdavis.edu/apply/JPF02209 . For full consideration applications must be received by July 6, 2018 however, the position will remain open until filled through June 30, 2019. Qualified applicants should submit a Curriculum Vitae (CV), research statement, and list of publications. Applicants should also provide contact information for references.

UC 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. For the complete University of California nondiscrimination and affirmative action policy see: http://policy.ucop.edu/doc/4000376/NondiscrimAffirmAct . If you need accommodation due to a disability, please contact the recruiting department.

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 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/e-verify.
UC Davis is a smoke & tobacco-free campus ([http://breathefree.ucdavis.edu/](http://breathefree.ucdavis.edu/)).