

Engineer to Develop Systems for Vision Testing and Retinal Imaging At UC Berkeley and UC San Francisco

Austin Roorda, PhD (UC Berkeley School of Optometry <http://roorda.vision.berkeley.edu/>) and Jacque Duncan MD (UC San Francisco Department of Ophthalmology <http://profiles.ucsf.edu/jacque.duncan>) have collaborative projects involving the development and use of advanced optical systems for imaging the retina and measuring visual function on a cellular scale. The main technologies include adaptive optics, scanning laser ophthalmoscopy, and the implementation of innovative methods to track eye motion with unprecedented accuracy. They use their systems for a wide range of applications, from monitoring the efficacy of treatments to slow eye disease to elucidating the circuits in the retina that underly human color vision.

We are looking for a capable and innovative engineer who will join our team to help develop and build a new generation of optical systems to achieve our research goals. Eligible candidates must have fundamental skills in designing and building optical imaging devices and must have demonstrated experience with complete systems, including optics, electronics, hardware and software. Specific experience with adaptive optics, Zemax optical design software, ophthalmic imaging and scanning laser imaging systems are desirable, but not required.

The specific task of the engineer will be to help design, build and maintain systems for basic science applications at UC Berkeley and for clinical applications at UC San Francisco. This aspect of the project is part of larger multi-center NIH funded project involving a team of scientists and engineers at multiple sites (UC Berkeley, UCSF, University of Alabama, Montana State University). The engineer will be meeting regularly with engineers and scientists at the other sites and so good communication skills are a high priority.

A minimum of a bachelor's degree in a technical field (optical engineering, electrical engineering, biomedical engineering or equivalent) is necessary. If you wish to apply for the position, then please send a cover letter, resume, detailed descriptions of your prior work, and the names and contact information for three people who can provide a recommendation.

Salary & Benefits

Commensurate with experience; excellent benefits. For information on the comprehensive benefits package offered by the University visit: http://atyourservice.ucop.edu/forms_pubs/misc/benefits_of_belonging.pdf

How to Apply

Submit your application online as one document when applying online at: <http://jobs.berkeley.edu/> (Job ID is 18160)

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