

The Center for Visual Science at the University of Rochester has an open position for an optical engineer to join a highly collaborative team of vision scientists who use advanced optical technologies to study vision in the normal and diseased eye. Technologies currently under development include the next generation of vision correction techniques, ultra-high resolution eye trackers, instruments capable of observing both structure and function at a cellular spatial scale in the living eye, new technologies to improve restored vision in the blind, and the development of an optical interface between computers and single neurons inside the living eye.

The applicant will work closely with faculty in the Center for Visual Science including researchers from the Flaum Eye Institute, the Institute of Optics, Brain and Cognitive Science, and Neuroscience at the University of Rochester. They will interact with the Advanced Retinal Imaging Alliance (ARIA), a multidisciplinary imaging team passionate about understanding the physiology underlying healthy and diseased eyes. Key investigators include Jennifer Hunter, Susana Marcos, Juliette McGregor, William Merigan, Martina Poletti, Michele Rucci, Jesse Schallek, and David Williams.

Key Responsibilities:

- Assist in the design, construction, and optimization of new optical technologies for vision science.
- Maintain, align, and calibrate existing instruments for vision science such as adaptive optics ophthalmoscopes for microscopic imaging of the living eye and vision testing devices that incorporate adaptive optics.
- Assist in research projects by operating these instruments.
- Train undergraduates, graduate students, post-doctoral fellows on instrumentation including the appropriate application of light safety standards.

Desired Qualifications:

- BS through PhD level training will be considered.
- Hands-on experience with the design, construction, alignment and troubleshooting of optical instrumentation.
- Knowledge of sequential ray tracing using optical design software (Zemax or Code V).
- Experience with scanning and array detection imaging technology is desirable.
- Experience in performing independent engineering/scientific research

- Experience with project management
- Excellent written and oral communication skills.
- Experience in the field of ophthalmoscopy and vision science is not required.

Salary Range: \$50,000 - \$80,000 per year; commensurate with experience.

The University of Rochester is an exciting place to pursue a career in biomedical optics, with The Institute of Optics, the Center for Visual Science, and the Flaum Eye Institute here at the University. The Rochester community is replete with companies with expertise in optics and imaging. For additional information see the Center for Visual Science page <http://www.cvs.rochester.edu/> and the Advanced Retinal Imaging Alliance page <http://www.aria.cvs.rochester.edu/>.

Applicants should submit a curriculum vitae and names of three references to:

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The University of Rochester is an equal opportunity employer.

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