Optical Engineer / Prototyping Engineer

Laboratory of Neurotechnology & Biophysics
The Rockefeller University, New York, NY

To consolidate a number of the optical neurotechnologies in our laboratory, to support the development of alpha and beta prototype microscopes in collaboration with our industrial partners and to drive the broader dissemination of our technologies, we are currently looking for highly motivated and ambitious candidates who will be involved in the following areas:

- **Development and optimization of new high-speed optical methods for large scale recoding of neuronal population activity**
- **Imaging in and through scattering media**
- **Optimization and dissemination of computational imaging techniques**

Qualifications
Depending on the specific project the ideal candidate should have the following profile:
- Highly motivated, ambitious and passionate about science
- PhD degree, masters degree or bachelor's degree in physics, optical engineering or related area and 2-5 years of work experience in a scientific or industrial research environment
- Experience with one and more of these areas would be highly desired: optical modeling and simulations (e.g. ZEMAX), ultra-fast laser systems, fiber optics, mechanical design, mechanical fabrication skills, RF electronics and electronics design, optomecnical hardware control (LabView, FPGA, experience with large-scale data processing and cluster computing
- Basic programming skills (e.g. Matlab, Python, LabView, CAD)
- Highly result orientated, excellent time management and communication skills and the ability to effectively work in a team environment between academia and industry and willingness to work outside of the core expertise.

The successful candidates will join the Laboratory of Neurotechnology & Biophysics at the Rockefeller University with a long-term perspective and will be embedded in our network of active collaborations in the New York area and beyond which are supported by dedicated recent awards. Interested candidates should send their CV including publications, copy of transcripts as well as the contact information of two references to Prof. **Alipasha Vaziri** (vaziri@rockefeller.edu). For more information please visit our website www.vaziria.com or
http://www.rockefeller.edu/research/faculty/labheads/AlipashaVaziri/#content