



Programmer with experience in image processing

Laboratory of Ocular Biomechanics, University of Pittsburgh

The Laboratory of Ocular Biomechanics at the University of Pittsburgh is seeking candidates for a Systems / Programmer Level 2 to work in support of the computational efforts of the laboratory. Specifically, the incumbent will be responsible for programming tasks associated with image acquisition and analysis, numerical modeling (e.g. finite element modeling), visualization and some statistics. The candidate should be bright, dynamic, self-driven, and have an interest in using computational resources to support scientific research. The candidate should have good communication skills, and the ability to work independently as well as on a collaborative interdisciplinary team. The position will present many opportunities for learning and personal development with the support from a diverse team of engineers and clinicians from our lab and collaborators. The incumbent will be expected to become familiar with the scientific objectives of the work and be able to participate in discussions to interpret results and to help plan projects. The incumbent will also be responsible for support with the functioning of the laboratory computers and software (e.g. equipment troubleshooting, backups).

A B.S. in Computer Science, Computer Engineering or a related discipline and two years of experience are required. Education beyond B.S. may count as experience. Proficiency in either C++ or Java is required. Experience with image processing, ITK in particular, is highly desired. The following (or equivalent) are highly desired:

- a) Experience with software development in a research setting.
- b) Experience with numerical methods and/or finite element modeling software (e.g. Ansys)
- c) Experience with Matlab, Python, R, TCL or APDL.
- d) Experience with methods for material characterization
- e) Experience with statistical analysis.

Interested applicants should submit i) a detailed CV and ii) a brief letter describing interests, goals and suitability for the position (1 page max) to Ian Sigal, PhD sigalia@upmc.edu. More details about the Laboratory of Ocular Biomechanics at www.OcularBiomechanics.org. Applications will be considered on a rolling basis, so early submission is encouraged. When the job posting becomes active, a full application through UPMC (www.upmc.com/careers) will be required. The University of Pittsburgh is an Affirmative Action, Equal Opportunity Employer.