

Posting Title: Principal Scientist - BioImaging COE
Job Requisition: 046180
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United States Michigan Ann Arbor

Job Duties:

Preclinical Image Analysis Expert. Implement segmentation, registration, and pattern recognition algorithms as reusable software modules using a variety of development tools including ITK, VTK, Visual C++, Matlab, and IDL. Participate in the design of data acquisition protocols for all modalities and based on analysis results provide feedbacks to MRI, microCT, and microPET Experts to fine-tune protocol parameters. Initiate new analysis algorithm development for challenging analysis problems and develop practical working solutions in a timely fashion. Assist in image processing and data analysis, and interpretation of image data for all modalities. Streamline image analysis workflows for all modalities by minimizing tedious manual procedures and developing/implementing more automated analysis algorithms. Participate in validation studies as an expert reader to validate and calibrate analysis tools.

Qualifications:

PhD +5 years or postgraduate degree +8 years experience in image analysis and processing. Experience in MRI/PET is highly valued. Experience in ITK and 3D visualization libraries such as VTK is highly valued. Experience in object-oriented programming (C++ preferred). Experience in DICOM, Analyze, Matlab, IDL, or LabView.

- Experienced technical expert in development and application of 3D image processing/analysis
- Have strong communication skills to be effective in a highly-matrixed organization in order to conceptualize image-processing concepts for application to real-life biological processes, which is understandable by the non-imaging expert
- Demonstrated broad understanding of how image processing can be best utilized in disease characterization and identification of drug effect, visual representation of complex imaging datasets and data mining
- Demonstrated ability to work collaboratively across a Global R&D organization and with outside companies and academic institutions.

Ping Chiao, Ph. D
Pfizer Global Research and Development
BioImaging Center
2800 Plymouth RD, Ann Arbor, MI 48105
Phone: 734-622-7321, Fax: 734-622-4398
<mailto:ping-chun.chiao@pfizer.com>

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