us: Postdoc Position in Numerical Optical Imaging [strong backgrnd in numerical progr, 3D Finite element/difference/analytical modeling of photon diffusion, image reconstruction with real experimental data; Matlab, and/or C; numerical modeling of diffuse optical imaging] / Roswell Park Cancer Institute; Buffalo, NY

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Roswell Park Cancer Institute

Postdoc Position in Numerical Optical Imaging

At Roswell Park Cancer Institute (RPCI) we are looking for candidates to take an active part in numerical modeling of diffuse optical imaging. We focus on non-invasive imaging/monitoring of tumors during therapy. Several projects are available with a particular focus on novel fluorescence tomography to non-invasively investigate novel drugs during PDT and other therapies in animals and clinical applications such as human melanoma and breast cancer. For the details please visit us at: www.roswellpark.org/BIL

RPCI, top ten cancer institute in US, is a cancer center established in 1898 on the principle of integrating clinical cancer care, cancer research and cancer education, making it the oldest "cancer institute" in the US. Photofrin, which was developed at RPCI as a PDT drug, is being used worldwide for treatment of a wide variety of solid tumors. RPCI offers a stimulating work environment integrating physics and engineering with chemistry, biology and medicine.

Qualifications:

The qualified candidates should have a strong background in numerical programming, particularly numerical modeling of photon transport in turbid media. It will be advantageous to have a previous background on fluorescence tomography with real/experimental data inversion.

In summary, preferred particular skills are following:

- Strong programming skills and experience with Matlab, and/or C.
- 3D Finite element/difference/analytical modeling of photon diffusion.
- Image reconstruction with real experimental data.

To Apply:

Please send (via email) your CV with three "names" of reference and a cover letter describing your background, research experience, and research interests to:

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