

# Post-doctoral position

## High-speed in-vivo optical microscopy / light sheet

A new post-doctoral position is available in the lab of Dr Elizabeth Hillman at Columbia University. We are seeking someone with strong **optical microscopy development** expertise to continue development of our new SCAPE (swept, confocally aligned planar excitation) microscopy technique.

SCAPE is a hybrid between confocal scanning microscopy and light-sheet and can yield 3D imaging speeds up to 100 x faster than two-photon microscopy in living tissues. We were recently awarded a **3 year NIH BRAIN Initiative grant** to continue this development, including implementation of the technique with two-photon excitation.

Applicants should have strong experience in laser physics, optical design, optomechanics, electronic integration and DAQ and GUI software development, and imaging data analysis. Prior experience in biomedical imaging of rodents and / or small organisms such as *Drosophila* or zebrafish is desired but not essential. The position is available immediately.

Applicants should contact Prof Elizabeth Hillman at [eh2245@columbia.edu](mailto:eh2245@columbia.edu), including a cover letter and full CV. Women and underrepresented minorities are encouraged to apply.

Posting date: 12/2/15