



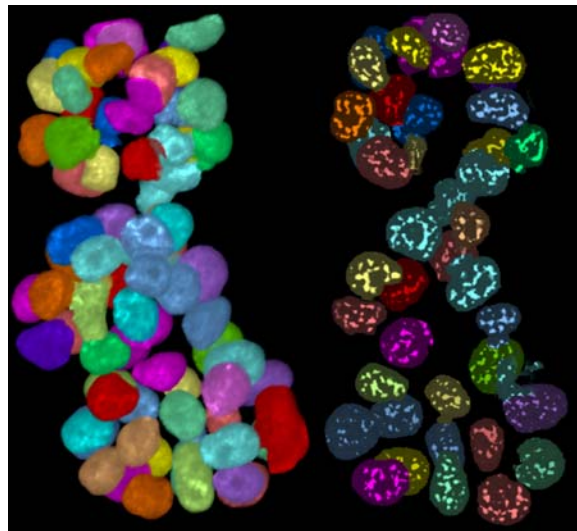
November 2006

## Postdoctoral Position

### **IN QUANTITATIVE IMAGE AND STATISTICAL ANALYSIS OF BREAST TISSUE AT SUBCELLULAR RESOLUTION IN THE KNOWLES LAB AT THE LAWRENCE BERKELEY NATIONAL LAB**

The Knowles Lab (<http://dwknowles.lbl.gov>) is seeking a talented postdoctoral fellow in the area of quantitative image and statistical analysis to develop image-based methods to aid the early detection and sub classification of human mammary tumors.

This breast cancer project is a multidisciplinary effort between Life Sciences at LBNL, Basic Medical Sciences at Purdue, the Indiana Cancer Center, the Comprehensive Cancer Center at UCSF and the Institute for Data Analysis and Visualization at UC Davis. The goal is to link epigenetic organizational changes with in the nucleus with the phenotype or grade of normal, premalignant and malignant cultured and biopsied human mammary tissue. Working with 3D confocal images of human mammary tissue, the postdoctoral fellow will develop multidimensional features sets to describe the nuclear distribution of chromatin-related proteins at cellular resolution.



The applicant must have 1) a Ph.D. in computing science, biophysics, bioengineering or related field within the last four years; 2) Experience with single and multiphoton imaging techniques, 3) Expertise with C programming, linear systems, and advanced knowledge in image analysis techniques, 4) A demonstrated ability to conduct independent research as documented by a publication record. Experience with Matlab, the DIPimage toolbox, visualization techniques, bioinformatic techniques, cell biology and cancer biology would also be desirable.

This position is fully funded by a grant from the National Cancer Institute.

**Applications** to [jobs.lbl.gov](http://jobs.lbl.gov)

<http://jobs.lbl.gov/LBNLCareers/details.asp?jid=20098&p=1>