



## Postdoctoral Fellowships in Omics Nanotechnologies for Cancer Precision Medicine

The Carl R. Woese Institute for Genomic Biology at the University of Illinois at Urbana-Champaign offers a number of fellowships for truly exceptional young scholars who have completed their PhD within the last several years, and who are looking for a stimulating and supportive interdisciplinary environment to carry out independent and collaborative research in the field of anticancer drug discovery. IGB Fellows will typically spend two or more years conducting research in one of the IGB themes. A personalized mentoring plan will be developed for each Fellow. Annual salary is \$50,000, in addition to a \$7,500 allowance.

### Omics Nanotechnologies for Cancer Precision Medicine

A goal of the ONC-PM Theme is to identify and exploit novel nucleic acid and protein biomarkers of cancer that can be noninvasively and rapidly measured from a single blood fingerstick using new technology platforms, to eventually measure diagnostic biomarkers in cancer patients to identify cancer sub-classes, monitor recurrence, and track therapy, to provide a more personalized approach toward patient care. We seek an individual who will serve in a research and leadership role to facilitate collaboration between interdisciplinary teams. The Fellow will develop ultra-sensitive technologies that incorporate nanostructured optical biosensors, high contrast nanoparticle tags (quantum dots and plasmonic nanoparticles), and microscopy-based detection instrumentation. Candidates with a PhD in Bioengineering, Electrical and Computer Engineering, Chemistry, Biochemistry, or related discipline preferred. Experience in the development and characterization of biosensors with an emphasis on optics-based approaches such as fluorescence, surface-enhanced Raman spectroscopy, or label-free detection are desired. Preference will be given to candidates familiar with instruments used for optical detection, including microscopes, imaging camera technology, and laser excitation sources. A track record of high impact peer-reviewed journal publications and excellent communication skills are required. **Applicants should submit a CV, a research summary, and the names of three recommenders who can write letters on their behalf. This information should be sent to Professor Brian T. Cunningham (Theme Leader), [bcunning@illinois.edu](mailto:bcunning@illinois.edu) in advance of the March 12, 2017 closing date.** The University of Illinois is an Affirmative Action/Equal Opportunity Employer. Visit [www.igb.illinois.edu](http://www.igb.illinois.edu) for additional information.