

Nanotechnology simulation and more  
Always on, around the globe



Issue 15

## Interested in Advancing Your Knowledge of Biosensors & Bioinstrumentation?

Further your knowledge by exploring nanoHUB's course on Biosensors taught by Professor Brian Cunningham of the University of Illinois at Urbana-Champaign (UIUC). You can also check out some of the following online presentations:

- [Introduction to Self-Assembled Monolayers and Biosensors](#)
- [Interfacing Carbon Nanotubes with Biological Systems: From Biosensors to Cellular Transporters](#)
- [Self-assembled Monolayer Based Biosensors for Healthcare](#)

For nanoHUB users interested in taking their understanding of biosensors to the next level, there is a professional master's degree program at the University of Illinois that covers advanced topics in biosensors and their industrial application.

First of its kind, the Master of Engineering (M.Eng.) in Bioinstrumentation at the University of Illinois at Urbana-Champaign is a one-year professional degree program that trains engineers to be industry leaders by combining engineering coursework focused on bioinstrumentation and medical imaging devices with fundamental business training.

As the global healthcare system is undergoing transformation, driven largely by an aging population, there is greater need for technological advances in medicine and bioengineering that will provide better healthcare at a lower cost. However, a [survey](#) of U.S. CEOs by Business Roundtable and Change the Equation has highlighted the need for skilled employees for jobs that require advanced quantitative knowledge and basic business skills. The M.Eng. in Bioinstrumentation is designed to bridge this skills gap by developing students with advanced technical know-how, a better understanding of the highly regulated medical imaging industry and more business acumen through coursework, applied consulting project, weekly seminar series and co-curricular workshops.

For additional information, visit [bioinstrumentation.illinois.edu](http://bioinstrumentation.illinois.edu).

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### Announcements

Don't forget to register for the nanoHUB User Conference before August 5th, 2015 to get early bird registration rates. [register now!](#)

### Upcoming Events

[ICANM 2015: International Conference & Exhibition on Advanced & Nano Materials](#)

**When:** August 10th -12th, 2015

**Where:** Ottawa, Canada

[nanoHUB User Conference](#)

**When:** August 31st - September 1st, 2015

**Where:** West Lafayette, IN

[Register now](#)

[18th International Workshop on Computational Electronics](#)

**When:** September 2nd - 4th, 2015

**Where:** West Lafayette, IN

[Register Now](#)

Explore Events

### Featured Tools

[BioSensorLab](#)

Evaluate and predict the performance parameters of Biosensors.

[MEMSLab](#)

Simulation suite for electromechanical actuators.

[UV/Vis Spectra Simulator](#)

Compute molecular electronic spectra.

Explore Tools

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Users selected to be featured in the newsletter will receive a Bluetooth speaker OR a Brookstone LED Desktop Hub. Ten randomly selected users will receive nanoHUB t-shirts, and five randomly selected users will receive 200 nano-points to spend at our online [store](#).

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