

Nanotechnology simulation and more  
Always on, around the globe

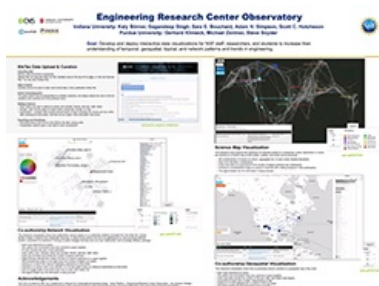


Issue 25

## Engineering Research Center Observatory

The Engineering Research Center (ERC) Observatory project is a collaboration between the CNS Center at Indiana University and the nanoHUB Team at Purdue University.

As the premier community for computational nanotechnology research, education, and collaboration, nanoHUB.org hosts this project and provides a portal to novel dashboard interfaces and visualizations of collaboration networks and science maps generated for engineering research centers (ERCs). The interactive data visualizations were designed for NSF staff, researchers, and students to increase their understanding of temporal, geospatial, topical, and network patterns and trends in engineering. Through the ERC Observatory, key stakeholders can use advanced data mining and visualization techniques to inform data-driven resource allocation, priority setting, but also career decisions related to the centers.



[Click to view full-size poster \[PDF\]](#)

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## NSF Nanoscale Science and Engineering Grantees Conference

The 2017 NSF Nanoscale Science and Engineering (NSE) grantee conference, hosted by the Network for Computational Nanotechnology (NCN) which operates nanoHUB.org, brought together approximately 120 researchers, educators, and administrators in Arlington, Virginia.

During the two day event, attendees had opportunities to participate in panel discussions and listen to keynote lectures relating to two major themes: progress in foundational nanotechnology and infrastructure, and progress in grand challenges and convergence. More than thirty-five research projects highlighting nanotechnology centers and current research were presented during a scientific poster session. Presentation slides and posters will be available shortly at the official conference website:

<http://www.nseresearch.org/2017/index.htm>.

NCN would like to extend its thanks to the outstanding presenters, panelists, and moderators, as well as the conference attendees, for making this event special.

**Undergraduates: Interested in learning about computational nanotechnology while enhancing your resume?**

## Upcoming Events

### [MATDAT18: Materials and Data Science Hackathon](#)

**When:** May 15-17, 2018

**Where:** Alexandria, VA

**Note:** The application deadline for materials scientists is January 19, 2018.

[Explore Events](#)

## New Resources

### [Jupyter Object Oriented MicroMagnetic Framework \(OOMMF\) Example Notebooks](#)

Jupyter-OOMMF (JOOMMF) integrates a popular micromagnetic package OOMMF with Python and Jupyter Notebook.

### [M-file/Mif Automatic GEnerator \(MAGE\)](#)

MAGE is a GUI tool for automatic generation of OOMMF configuration files and Matlab scripts for results analysis.

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The Network for Computational Nanotechnology and nanoHUB.org are supported by the National Science Foundation.



Apply for a full-time, 11-week Summer Undergraduate Research Fellowship (SURF) with the Network for Computational Nanotechnology (NCN) at Purdue University. We are looking for rising seniors who have computer coding skills in addition to a strong foundation in science or engineering to develop advanced simulation tools for nanoHUB.org. Compensation is \$4,500 for the summer, plus housing and travel assistance for visiting students.



Visit <https://nanohub.org/groups/ncnsurf> for more information and requirements. Past projects are listed, and projects for 2018 are now available. In addition to research, the program includes seminars, graduate school workshops, social events, and more.

Apply online starting 1/3/2018. Be sure to list "Network for Computational Nanotechnology (NCN)/nanoHUB" as your top choice and state which project(s) you are interested in.

## Can That Spam!

nanoHUB is a community that is open to all, and that openness can sometimes lead to abuse. Have you ever searched the HUB and noticed inappropriate images or content such as advertising for goods and services? If so, we need your help.



While the nanoHUB team makes every effort to catch these "spam" postings before they are made public, it is a large website, and sometimes our users find inappropriate content before we get to it. If you see something that violates community standards or is commercial in nature, please let us know. You can click the "Help" link at the top of any page and use the "Report a problem" form to let us know about the offending material.

Thanks for making the nanoHUB a better community for everyone!