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## Cloud computing in nanoHUB powering education and research

Michael McLennan, mmclenna@purdue.edu

### ABSTRACT

nanoHUB.org lets you access simulation/modeling tools online via an ordinary web browser. Where do the tools come from? From you—hundreds of you throughout the world who are developing simulation/modeling tools for research and education. Anyone can upload code onto nanoHUB and publish a tool. The tool can be restricted to a limited group of colleagues or open for the entire world to use. The source code can be kept protected or given out as open source.

Learn from this overview how to contribute and publish a new tool on nanoHUB – starting with a tool registration form, then uploading code into a Subversion repository, developing and testing the code within the “workspace” tool, and finally, approving and publishing your tool. Learn how to use Rappture, the Rapid APplication infrastructure, a toolkit that makes it easy to develop graphical user interfaces for scientific tools in a variety of languages, including C/C++, Fortran, MATLAB, Octave, Java, Python, Perl, R, Ruby, and Tcl. See how your tool can be made available as a citable resource to thousands of users around the world, and use the built-in analytics of the nanoHUB platform to watch your user base grow.