

The Network for Computational Nanotechnology:
Cyber-Infrastructure and Grid Computing for Nanotechnology Exploration and
Education

Gerhard Klimeck,
Mark Lundstrom, Sebastien Goasguen
Network for Computational Nanotechnology, Purdue University
School of Electrical and Computer Engineering
West Lafayette, IN 47907
Email: gekco@purdue.edu

The Network for Computational Nanotechnology (NCN) is a National Science Foundation initiative. Our mission is to: 1) Address key research challenges through theory and computation. 2) Create and support a cyber-infrastructure that facilitates collaboration and provides ready access to simulation services, high-performance computing, visualization, and public-domain software, and 3) Educate students and professionals. The NCN hosts <http://www.nanohub.org>. Approximately 1000 users perform about 86,000 simulations annually. Other services such as nanotechnology seminars, tutorials, and courses attracted about 8,000 distinct user sessions, lasting over ½ hour in the last 6 months and nanoHUB registered over 700,000 raw page hits.

The NCN is seeking outstanding software developers who can aid in its mission on an hourly employment basis. Possible projects cover php – mambo development, usage statistics analysis, middleware development, graphical user interface development, and application software development. Bring your resume and discuss your options with the speaker after the presentation.

Gerhard Klimeck is the Technical Director of the Network for Computational Nanotechnology at Purdue University and a Professor of Electrical and Computer Engineering. His research interest is in the modeling of nanoelectronic devices, parallel cluster computing, genetic algorithms, and parallel image processing. He was previously at the NASA Jet Propulsion Laboratory from 1998-2003 and with the Central Research Lab of Texas Instruments from 1994-1998 where he was the architect of the first nanoelectron CAD tool NEMO. Dr. Klimeck received his Ph.D. in 1994 from Purdue University and his German electrical engineering degree in 1990 from Ruhr-University Bochum. Dr. Klimeck's work is documented in over 350 publications. More information about his work can be found at <http://ece.purdue.edu/~gekco>