

October 1, 2007



**Upcoming Events:**

**Oct 11, 2007**  
**Innovation Valley**  
**Nano Alliance**  
**Monthly Meeting**

**Job Announcement:**  
**RSCC seeks**  
**Nanoscience &**  
**Technology Program**  
**Director**

**Founding Partners:**



**Upcoming Events:**

**October 11, 2007 - Innovation Valley Nano Alliance Monthly Meeting**  
8:00-9:30 am @ Tech 2020  
**Software Advances in Nanotech Modeling**  
**Dr. Klaus Stark, Senior Solutions Scientist, Accelrys**

This month's speaker will be Dr. Klaus Stark, Senior Solutions Scientist with [Accelrys](#). Accelrys' state-of-the-art nanotechnology software tools, all offered in the Materials Studio software environment, have a proven track record of enhancing nanotechnology R&D in a plethora of applications, such as nanoelectronics, devices, displays, coatings, drug delivery and nanocomposite materials.

Dr. Klaus Stark studied chemistry in Bielefeld, Germany and finished his diploma thesis in theoretical chemistry in 1991. During his PhD research he worked on the energetics and reaction dynamics of small molecular systems using highly correlated ab initio techniques and quasi-classical trajectory as well as quantum dynamics methods.

He was awarded Dr. rer. nat. in April 1996 from the University of Stuttgart, Germany under the supervision of Prof. Dr. H.-J. Werner. During his post-doctoral research at the Physics Department of the University of Bielefeld (Group of Prof. Dr. H.-O. Lutz), Dr. Stark studied molecular collisions and Coulomb explosions by means of ab initio and Monte Carlo simulations.

Dr. Stark joined MSI as an Applications Scientist on September 1, 1997. In September 2001, he took responsibility for Accelrys's quantum mechanics products as Product Manager in San Diego, CA and is now working from Houston, TX as a Senior Lead Scientist.

There is no fee to attend the Innovation Valley Nano Alliance meeting. Please register by emailing [rsvp@tech2020.org](mailto:rsvp@tech2020.org) or calling 865-220-2020.

The Innovation Valley Nano Alliance meets on the 2nd Thursday of every month, 8:00-9:30 am at Tech 2020.

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**For more information on the Innovation Valley Nano Initiative, contact :**

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**Visit [Nanovalley.us](http://www.nanovalley.us)**

While there are still plenty of changes and updates to be made, please visit our new Innovation Valley Nano Alliance website at [www.nanovalley.us](http://www.nanovalley.us).

## **Job Announcement:**

### **Roane State Community College seeks Program Director, Nanoscience and Technology**

Roane State Community College recently received a \$50,000 planning grant from the National Science Foundation that will allow the assess the logistics of developing an Advanced Technology Education (ATE) Center in the region.

Roane State Community College, in partnership with a project team, proposes to implement a planning process that would result in the team's submission of a grant application to the National Science Foundation to support an ATE Regional Center for nanotechnology workforce education in the Tennessee Valley Region. This project team currently includes K-12 school systems, two-year and four-year postsecondary institutions, and business leaders of the Tennessee Innovation Valley Nano Alliance.

Additionally, Roane State has investigated regional nanoscience workforce needs and skill gaps and has determined that a new Associate Of Applied Science (AAS) Degree in Nanotechnology Fabrication is required to meet regional nano-manufacturing requirements. In addition to overseeing the follow-on NSF grant proposal, the Program Director will be responsible for developing curriculum, hiring faculty, etc. for this new program.

Roane State Community College is a national leader in producing technicians and graduates with associate degrees in science technologies. Tennessee's Innovation Valley, with its world-class nanoscience facilities, is poised to become a national nanotechnology hub, which will strengthen this region's economy with new businesses and high quality jobs. However, educational institutions and local industries must develop a pipeline of nanoscience talent to fill jobs not only at the level of engineers and scientists but also create jobs for technicians to support the work of research and technology transfer.

#### DESCRIPTION OF DUTIES:

- Recruit faculty and develop curriculum
- Form a nanoscience and technology advisory committee
- Oversee planning process and obtain NSF funding for the creation of an ATE regional center for nanoscience technology workforce education
- Forge partnerships with science, industry, business communities and economic development organizations
  - Work with educators to develop educational and career pathways in nanoscience
  - Prepare and maintain the program budget
  - Assist in the process of interviewing, selecting and mentoring faculty

#### QUALIFICATIONS:

- Master's degree required, (terminal degree preferred) in science, engineering or related field
- Experience in project management, business and technology transfer, grant management
  - Successful track record in collaboration across disciplines
    - College teaching experience preferred
    - Strong oral and written communication skills required
  - Demonstrated experience in organizing collaborative efforts with individuals and groups
    - Entrepreneurial and strategic thinker a plus
- Any equivalent combination of education, training and experience which provides the requisite knowledge, skills and abilities for this position

Visit the RSCC Human Resources Web Site at [www.roanestate.edu/humanres](http://www.roanestate.edu/humanres) for more information or to download an application.

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*The mission of the Innovation Valley Nano Alliance is to capitalize on the region's superior nanoscience research facilities, talent, and intellectual property to create new nanotechnology-related businesses, jobs, and wealth in East Tennessee.*