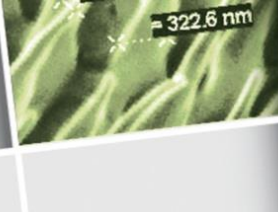




Building College-University  
Partnerships for Nanotechnology  
Workforce Development



The National ATE Center for Nanotechnology Applications and Career Knowledge (NACK)  
Handout

Wednesday, November 20<sup>th</sup>, 2013

# Resources for Learning and Teaching Nanotechnology

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## Key Objectives:

1. Resources for Educators
2. Resources developed by the NACK Network
3. Resources developed by others

## Video Resources:

Nova Making Stuff Series (2011): <http://www.pbs.org/wgbh/nova/tech/making-stuff.html>

- Hour-long video series on how nanotechnology is making stuff stronger, smaller, cleaner, and smarter.

How Small Is A Nanometer? (YouTube) [http://www.youtube.com/watch?v=o2aas8P\\_jgY](http://www.youtube.com/watch?v=o2aas8P_jgY)

## Additional Web Resources – Government organizations:

National Nanotechnology Initiative

<http://www.nano.gov>

National Nanotechnology Infrastructure  
Network (NNIN) - Nano Education Portal

[http://www.nnin.org/nnin\\_edu.html](http://www.nnin.org/nnin_edu.html)

NIOSH Safety & Health Topic:

Nanotechnology

<http://www.cdc.gov/niosh/topics/nanotech/about.html>

EPA Center for Environmental Implications of  
Nanotechnology

<http://www.ceint.duke.edu/>

National Cancer Institute

<http://nano.cancer.gov/>

NASA:

<http://www.nasa.gov/centers/ames/research/technology-onepagere/nanotechnology-landing.html>

NASA:

<http://quest.nasa.gov/projects/nanotechnology/resources.html>

USDA

<http://www.csrees.usda.gov/nanotechnology.cfm>

Consumer Product Safety Commission

<http://www.nano.gov/node/139>

CDC

<http://www.cdc.gov/niosh/topics/nanotech/>

National Institute of Standards & Testing

<http://www.nist.gov/nanotechnology-portal.cfm>

Nano You (European Union)

<http://nanoyou.eu/>



The NACK Center, in the Penn State College of Engineering, is committed to supporting the development of two-year degree programs in micro and nanotechnology across the county by offering academic and educational resources.



### Additional Web Resources – Resources: NSF and Educator Affiliates

NSF

<http://www.nsf.gov/news/overviews/nano/index.jsp>

Nano4me.org for Educators

<http://nano4me.org/>

NanoHUB:

<http://nanohub.org/education/nanocurriculum>

Nanoscale Information Science Education  
Network (NISE)

<http://www.nisenet.org/>

Nano Education Portal of the  
Nanotechnology Center for Learning &  
Teaching (NCLT)

[http://community.nsee.us/index.php?option=com\\_content&view=frontpage&Itemid=227](http://community.nsee.us/index.php?option=com_content&view=frontpage&Itemid=227)

Nano-Link

<http://nano-link.org/>

Southwest Center for Microsystems  
Engineering (SCME)

<http://www.scme-nm.org>

Southwest Center for Microsystems  
Engineering (SCME)

<http://www.scme-nm.org>

Center for Advanced Materials &  
Nanotechnology

<http://www.lehigh.edu/nano/>

University of Wisconsin-Madison Materials  
Research Science & Engineering Center

<http://mrsec.wisc.edu/MR--Home.php>

Maricopa Advanced Technology Education  
Center (MATEC)

<http://www.matec.org/>

University of Puerto Rico

<http://www.upr.edu/>

DiscoverNano (Northwestern University)

<http://discovernano.org/>

Mid-Content Research for Education &  
Learning (NanoLeap)

<http://www.mcrel.org/NanoLeap/>

NanoZone

<http://nanozone.org/index.htm>

### Additional Web Resources – Resources: Private/Independent

The Project on Emerging Nanotechnologies (PEN)

<http://www.nanotechproject.org/>

Network for Computational Nanotechnology

<https://nanohub.org/groups/ncn>

Small Times

<http://smalltimes.tinytechjobs.com/>

The Nanotechnology Group Inc.

<http://www.tntg.org/>

Power of Small

<http://powerofsmall.com/>

Nano Letters (journal)

<http://pubs.acs.org/journal/nalefd?cookieSet=1>

American Chemical Society Nanotation (journal)

<http://community.acs.org/nanotation/>

Nanodictionary

<http://www.nanodic.com/>

Diigo (nanotechnology web-seminars)

<http://www.diigo.com/list/nsdlworkshops/web-seminar-nano>

National Council for Advanced Manufacturing

<http://www.nacfam.org/>

Institute of Nanotechnology

<http://www.nano.org.uk/careers-education/education>

European Nanotechnology Gateway

<http://www.nanoformulation.eu/index.php/links/weblinks/116-nanoforumorg.html>

Nanopolis (Exploring Nanotechnology)

<http://www.nanotech-now.com/Nanopolis.htm>

NanoTecNexus

<http://www.nanotecnexus.org/>

Foresight Institute

<http://www.foresight.org>

Institute of Nanotechnology

<http://www.nano.org.uk/careers-education/education>

Science Daily

[http://www.sciencedaily.com/news/matter\\_energy/nanotechnology/](http://www.sciencedaily.com/news/matter_energy/nanotechnology/)