

# NNCI: The Nanotechnology Collaborative Infrastructure Southwest (NCI-SW) (Grant Number 1542160)



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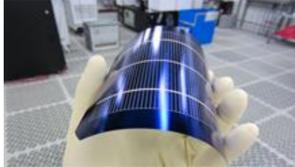
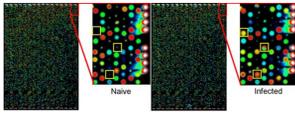


The NCI-SW is the southwest regional hub of the NNCI, supporting nanoscale science, engineering, and education to grow the manufacturing industries of the 21<sup>st</sup> century.

## Nanoscience Research Centers

- ASU NanoFab: Nanofabrication facility for device processing and characterization. 
- LeRoy Eyring Center for Solid State Science: User facility for materials characterization; surface, optical and structural analysis; and high resolution electron microscopy. 
- User Facility for the Social and Ethical Implications of Nanotechnology: Integrating academic and societal concerns in order to better understand how to govern new technologies.
- Center for the Lifecycle of Nanomaterials: Assessing the risks of nanomaterials to humans and the environment across their life cycle from creation, through use and disposal.

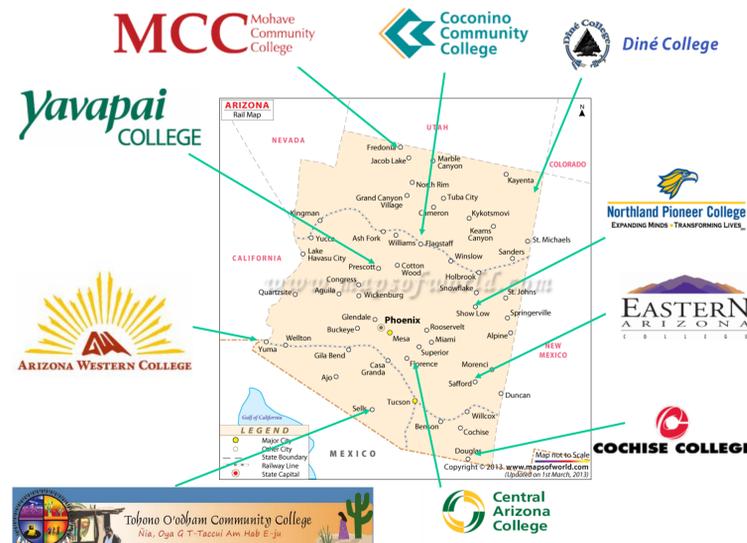
## Industry Standard Pilot Lines

- Solar Power Lab: Developing new technologies and ideas for a more sustainable society. 
- Peptide Array Core Facility: Microarrays and processing for immunosignaturing and other healthcare applications. 

A collaboration between Arizona State University, Science Foundation Arizona and Maricopa County Community College District



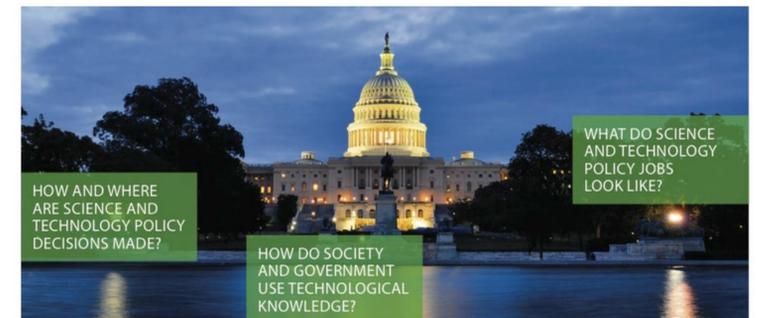
- Partner with community colleges in Phoenix, Tucson, rural Arizona, and on Native American tribal lands to deliver nanotechnology based STEM curriculum, including remote access labs.



- Support Community College Faculty Ambassadors drawn from a pool of faculty who have participated in previous RET programs.
- Host groups of students from across the southwest for residential summer Research Experiences for Undergraduates programs. 

## Science Outside the Lab (SOTL)

- SOTL is a two-week policy immersion program in Washington, D.C. for graduate students in science and engineering.
- Policy analysts, lobbyists, business people and decision makers from across the political spectrum discuss their work with participants.
- SOTL presents the complex landscape around science policy.



## Seamless access to technical, educational and outreach resources

- Disseminate best practices across the NNCI through webinars, workshops, and on-line training videos.
- Build user groups from non-traditional communities in the fields of geological and environmental sciences, biochemistry, and medicine.

Senior Investigators

Neal Woodbury, Associate Director (Bio-Nanomedicine)

Ton Sharp, Associate Director (Geosciences)

Dragica Vasileska (Simulation and Modeling)

Paul Westerhoff (Environmental Sciences)

Audrey Iffert (Entrepreneurial Programs)

Mike Lesiecki (Web Portal)

Caroline VanIngen-Dunn (STEM Outreach)

Plus: Wendy Barnard (Assessment), Anthony Evans and Jeff Luth (Marketing)