Leveraging EPSCoR to build merit capacity

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Vision 2015
West Virginia Science and Technology Strategic Plan

- Extend the EPSCoR vision
- Invest $250 million in state funds
- Recruit 89 new research faculty
- Build two new research facilities
- Produce more STEM degrees
- Develop new tech-based businesses
- Implement RII grant
Federal Research Support Builds Infrastructure

National Science Foundation EPSCoR
$ 4 million per year/5 years
• Investments in Infrastructure
• Faculty Recruitment
• Laboratories/Instrumentation
• Cyberinfrastructure
• Students
Research Goals

• Develop a world-class capability in bionanotechnology for enhanced public security and environmental safety

• Create a center of excellence at convergence of biometrics, nanotechnology, forensics and molecular biology

• Build on existing strengths at West Virginia, Marshall and West Virginia State universities
Leveraging EPSCoR for State Investment

• W.Va. Research Trust Fund
  • $50 million state investment
  • plus $50 million private investment

• Eminent Scholars Recruitment and Enhancement Program
  • $10 million

• Research Challenge Fund
  • $4 million annually
Leveraging Investments in West Virginia

- Research Trust Fund created
  - $170.9
- Eminent Scholars Recruitment and Enhancement initiative created
- EPSCoR Division of Science and Research created
  - $174.5

Bar chart showing investments:
- EPSCoR based at West Virginia University
  - 2000: $34
  - 2001: $36
  - 2002: $62
- EPSCoR moved to Governor's Office of Technology
  - 2003: $78
- EPSCoR moved to HEPC
  - 2004: $84
- Research Challenge Fund created
  - 2005: $89
- Vision 2015 plan released
  - 2006: $87
- $87
- HEP Division of Science and Research created
  - 2007: $83
- $14
- Eminent Scholars Recruitment and Enhancement initiative created
  - 2008: $54
- $8
- EPSCoR Division of Science and Research created
  - 2009: $8
CAREER Awardees


**Xiaodong Michael Shi**, 2009: “Developing 1,2,3-triazole skeletons as novel chiral building blocks in asymmetric catalysis.”
Building competitive scientists

Dr. Tina Cartwright, Marshall University.
Ensuring equity and access for underrepresented groups.
Three awards for $2.1 million

Dr. Cerasela-Zoica Dinu, West Virginia University.
Integrating nano-technology with biology, advanced technology, electrochemistry.
Two awards for $408,000
Building competitive scientists

Dr. David Lederman, West Virginia University. Magnetic interfaces and nano-structures. Eleven NSF awards totaling more than $3 million.

Dr. Maura McLaughlin, West Virginia University. Detecting gravitational waves - international partnership. Three NSF awards totaling $6.5 million.
Contact / Discussion

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