



*Communication: Key to Partnerships,
Multidisciplinarity, and Synergy*

NSF EPSCoR Project Directors and
Project Administrators Meeting
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Context and Opportunities for Building the STEM Workforce

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Context and Opportunities for Building the STEM Workforce

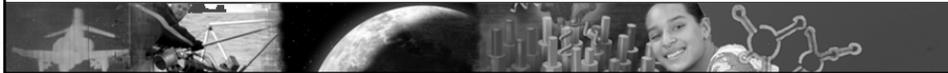
Director Suresh:

“Educational excellence in
all of NSF’s research activities and research
excellence in all of NSF’s education
activities.”



Context and Opportunities for Building the STEM Workforce

- Create partnerships that are purposefully structured to:
 - leverage the education and outreach work of NSF-funded centers and facilities;
 - capitalize on the rich array of STEM education research and development in EHR and across NSF;
 - connect upstream STEM education with downstream industry/academic customers; and
 - build upon recognized strengths among partners in research and development.



Where EHR Can Help

- Share established knowledge in connecting students with career resources.
- If EPSCoR projects are working on challenges at the K-16 level—
 - EHR can help them build work that is based on best available evidence; and
 - EHR can help them craft metrics to measure needed impact.



Critical Needs

- More research, development, and dissemination about what works
- Engage in research and development work about the appropriate and essential mathematics and science content for students in the 21st century
- Research on STEM learning and diverse learners with more attention to implications for practice
- Partner with other government agencies and private sector to support more effective STEM teacher preparation
- Research and development of better state assessment systems and tools
- Research to evolve blended models of formal and informal education

