



National Science Foundation

HSI STEM Outreach Forum

Division of Human Resource Development

**Quality Education for Minorities (QEM) Network**  
**HSI STEM Outreach Forum**  
**Las Vegas, Nevada**  
**December 4-5, 2009**

**Michael Fredenberg, Program Director**  
**Division of Human Resource Development**



## Division of Human Resource Development (HRD)

- **ADVANCE**: Increasing the Participation and Advancement of Women in Academic Science and Engineering Careers
- **CREST**: Centers of Research Excellence in Science and Technology
- **LSAMP**: Louis Stokes Alliances for Minority Participation
- **GSE**: Research on Gender in Science and Engineering
- **RDE**: Research on Disabilities in Education
- **TCUP**: Tribal Colleges and Universities Program
- **HBCU-UP**: Historically Black Colleges and Universities Undergraduate Program
- **I-Cubed**: Innovation through Institutional Integration (cross Directorate)



## •Faculty Support/Development

- ADVANCE**: Leadership Development, Career Coaches
- CREST**: 2 months/year salary
- GSE**: Release time
- RDE**: Release time, disability education trainings



## •**Student Support**

- LSAMP**: Main focus of program (undergraduate and graduate)
- RDE**: Stipends, research experiences
- CREST**: Important element of each project



## •STEM Curricula Enhancement

- LSAMP**: As part of retention strategies
- RDE**: Assistive technologies, accessibility, Universal Design

## •Laboratory Improvement

- RDE**: Accessible lab equipment



## •Partnerships

- LSAMP**: Partnerships between 2 & 4 year institutions
- CREST**: Encouraged, including industry
- GSE**: Encouraged
- RDE**: Encouraged up through major Alliances



## •Contact Information:

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