

Nuclear Energy University Program (NEUP)

Presentation to
Vice Presidents of Research and Development of
Historically Black Colleges and Universities

Ingrid M. Milton
Department of Energy
Office of Nuclear Energy

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Overview

- ◆ **The Office of Nuclear Energy (NE) is committed to strengthening the Nation's educational programs in nuclear science and engineering.**
 - Established the Nuclear Energy University Program (NEUP).
 - Award grants and contracts through competitive selection process.
- ◆ **NEUP enables universities to maintain and expand their nuclear science curriculum and programs to ensure future availability of technical experts for U.S. nuclear programs.**
 - NEUP is managed by the Center for Advanced Energy Studies (CAES).



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Nuclear Energy University Program – Objectives

- ◆ **Attract brightest students to the nuclear professions and support Nation’s intellectual capital in nuclear science and engineering.**
- ◆ **Integrate research and development (R&D) at universities, national laboratories, and industry to revitalize nuclear education.**
- ◆ **Improve university and college infrastructures for conducting R&D and educating students.**
- ◆ **Facilitate transfer of knowledge from aging nuclear workforce to next generation of workers.**



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Nuclear Energy University Program – Funding Opportunities

- ◆ **Support R&D activities at universities and research institutions through competitive awards.**
- ◆ **At least 20% of NE R&D funding set aside for university and research institution work in the following areas:**
 - NE mission-related and investigator-initiated R&D activities.
 - » R&D activities supports development of advanced energy technologies.
 - Advanced Fuel Cycle Initiative (AFCI).
 - Generation IV (GEN IV)
 - Nuclear Hydrogen Initiative (NHI)
 - Infrastructure improvements.
 - » Modernize university classrooms and laboratories.
 - Human capital development.
 - » Scholarships and fellowships.

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Nuclear Energy University Program: FY 2009 Budget

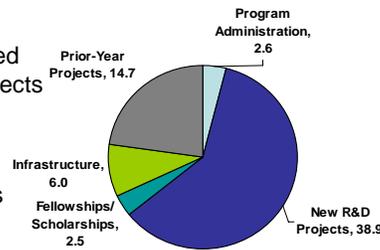
◆ Continue support for prior-year R&D project awards.

- Continue collaboration on 33/3 year projects.

FY2009 Budget: \$64.7M
by Activity (\$000's)*

◆ Solicit proposals and award university contracts and grants.

- NE mission-related and investigator-initiated nuclear science and engineering R&D projects contracts.
 - › 25/3 year (\$1,596,000 total) projects.
- Infrastructure and equipment requirements grants.
 - › 20/1 year (\$300,000 total) awards.
- Scholarship and fellowships grants.
 - › 105/1 year (\$5,000 total) scholarships.
 - › 13/3 year (\$150,000 total) fellowships.



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Nuclear Energy University Program – FY 2009 Solicitations Schedule

◆ Research and Development

- Jan. 20, 2009 – Pre-applications due
- Feb 6, 2009 – Requests for proposals due
- Mar. 16, 2009 – Full Proposals due
- May 6, 2009 – Awards announced
- Sept. 30, 2009 – Award selected proposals

◆ Infrastructure

- Mar. 11, 2009 – Funding Opportunity Announcement (FOA) for infrastructure published on www.fedconnect.net
- April 15, 2009 – Infrastructure applications due
- June 16, 2009 – Grants announced

◆ Scholarships and Fellowships

- April 3, 2009 – FOA for scholarships and fellowships published on www.fedconnect.net
- May 2, 2009 – Universities' applications to administer NEUP scholarships and fellowships; and students' fellowship applications due
- June 16, 2009 – Scholarship awards announced

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Nuclear Energy University Program: FY 2010 Plans

- ◆ **Conduct University Program Annual Project Review and Workshop**
 - Sponsor NEUP FY2010 workshop on solicitation process – August 13-14, 2009.
- ◆ **Issue FY2010 solicitation proposals and award university grants.**
 - NE mission-related and investigator-initiated nuclear science and engineering R&D projects.
 - Infrastructure and equipment requirements.
 - Scholarship and fellowships.
- ◆ **Encourage minority institution participation in NEUP.**

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Summary

- ◆ **Universities play a significant role in supporting NE program goals.**
- ◆ **More information on NE's University Programs and grants can be found at:**
 - www.caesenergy.org
 - www.fedconnect.net
 - www.inl.gov/education
 - www.nuclear.energy.gov

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