

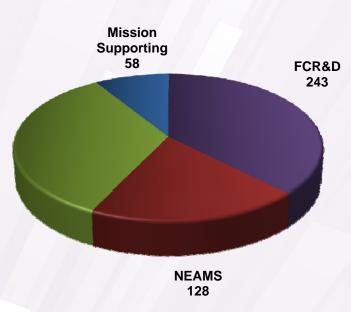


Submitted Pre-Applications

Concepts

R&D 219

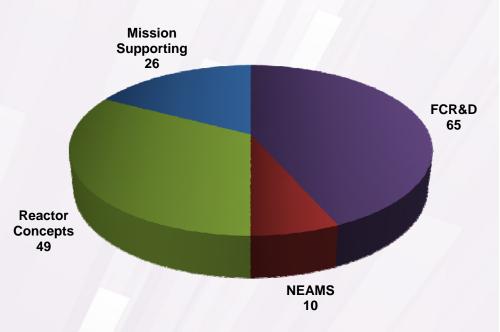
- NEUP received 648 applications in response to the FY 2012 request for preapplications (RPA)
- Pre-applications were submitted by 180 principal and collaborating research organizations
 - 116 universities
 - 10 national laboratories
 - 35 industry
 - 19 others, including foreign entities
- These organizations represent
 - 41 states and the District of Columbia
 - 4 foreign countries
 - 13 minority-serving institutions (MSI)
 - 1 U.S. territory





Recommendations - Invited Pre-Applications

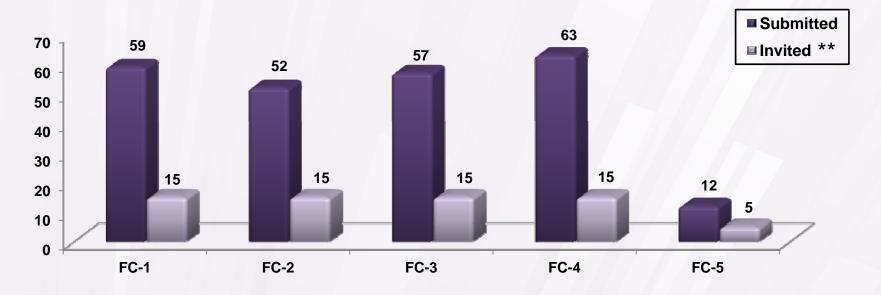
- 150 pre-applications to be invited to submit full proposals
- Invited pre-applications were submitted by 96 principal and collaborating research organizations:
 - 69 universities
 - 9 national laboratories
 - 12 industry partners
 - 6 others, including foreign entities
- These organizations represent
 - 34 states
 - 1 foreign country
 - 6 MSI
 - 1 U.S. territory







Fuel Cycle R&D



FC-1: Separations and Waste Forms

FC-2: Advanced Fuels

FC-3: Nuclear Materials Safeguarding and Instrumentation

FC-4: Used Nuclear Fuel Disposition

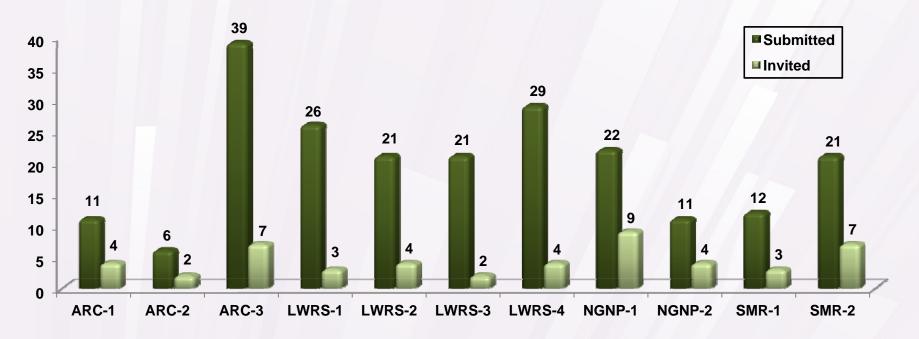
FC-5: Fuel Cycle Option Analysis

^{**} Invited = Recommended to be invited to submit full proposals





Reactor Concepts R&D



ARC-1: Advanced Reactors Concept Development

ARC-2: Advanced Energy Conversion

ARC-3: Advanced Structural Materials

LWRS-1: Advanced Mitigation Strategies

LWRS-2: Risk-Informed Safety Margin Characterization LWRS-3: Instrumentation and Control

LWRS-4: Advanced LWR Nuclear Fuel

NGNP-1: Computational Methodologies

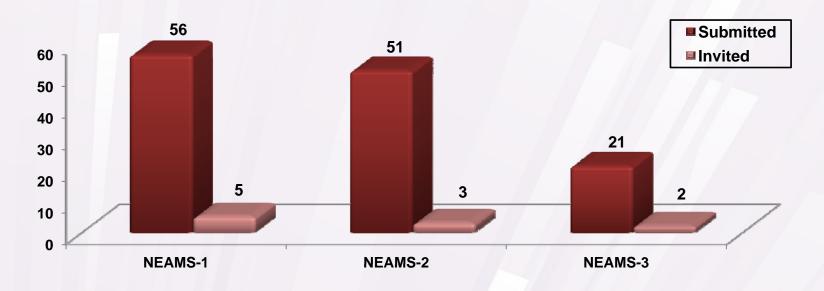
NGNP-2: Heat Transport, Energy Conversion, Hydrogen, and Nuclear Heat Applications

SMR-1: Advanced Concepts

SMR-2: Advanced Technologies and Analysis Methods



Nuclear Energy Advanced Modeling & Simulation (NEAMS)



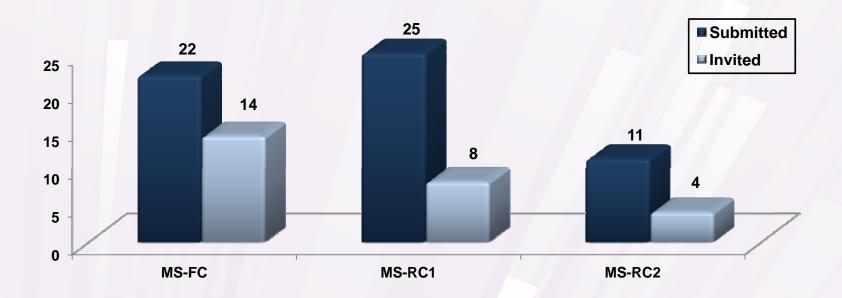
NEAMS-1: Structural Materials for Future Generation Nuclear Reactors

NEAMS-2: Model and Method Development to Support Current and Future Generation Nuclear Reactor Performance and Safety Analysis

NEAMS-3: Development of Phenomena-based Methodology for Uncertainty Quantification



Mission Supporting Transformative Research



MS-FC: Fuel Cycle R&D

MS-RC1: Reactor Concepts R&D

MS-RC2: Space and Defense RD&D - Radioisotope

Thermal Generator Technologies



Pre-Applications by State







Pre-Applications by Region

