

#### **Nuclear Energy**

#### FY 2013 CINR Pre-Application Demographics



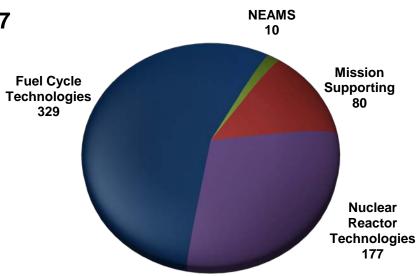






# Received Pre-Applications (Section A)

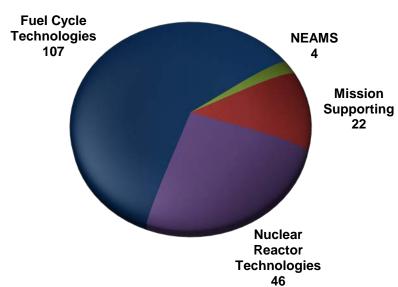
- 596 pre-applications were submitted in response to the FY 2013 Consolidated Innovative Nuclear Research FOA
- Pre-applications were submitted by 227 principal and collaborating research organizations
  - 132 universities
  - 11 national laboratories
  - 47 industry/utilities
  - 5 other
  - 32 foreign entities
- These organizations represent
  - 45 states and the District of Columbia
  - 20 minority-serving institutions (MSIs)
  - 15 foreign countries and 1 U.S. territory





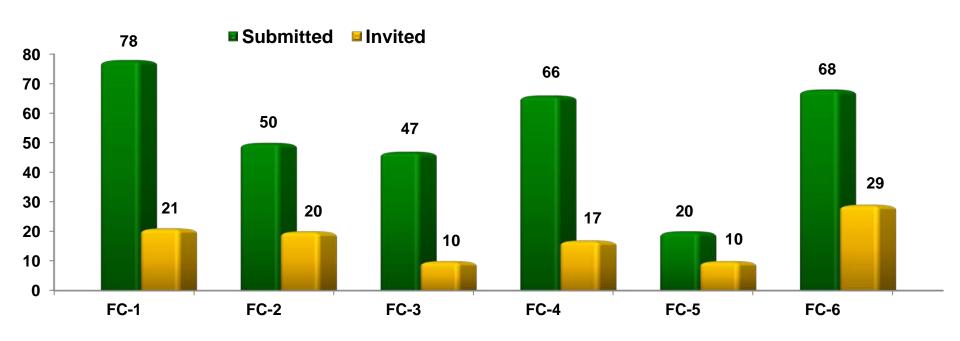
# Recommendations – Invited Pre-Applications (Section A)

- 179 pre-applications to be invited to submit full proposals
- Invited pre-applications were submitted by 126 principal and collaborating research organizations
  - 78 universities
  - 10 national laboratories
  - 22 industry/utilities
  - 1 other
  - 15 foreign entities
- These organizations represent:
  - 37 states and the District of Columbia
  - 9 MSIs
  - 9 foreign countries





# Fuel Cycle Technologies (Section A)



FC-1: Separations & Wasteforms

FC-2: Advanced Fuels

FC-3: Nuclear Materials & Instrumentation

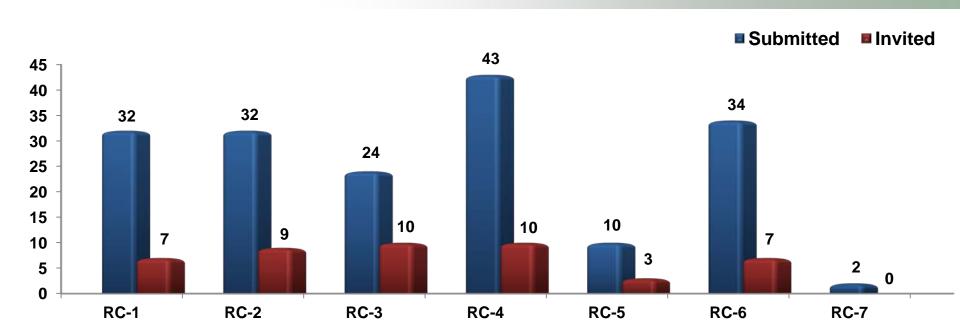
FC-4: Used Nuclear Fuel Disposition

FC-5: Fuel Cycle Option Analysis

FC-6: Nanonuclear R&D



## **Nuclear Reactor Technologies** (Section A)



RC-1: Computational Methodologies

RC-2: Advanced Technologies,
Development & Demonstration

RC-3: Advanced Structural Materials

RC-4: Materials Aging and Degradation

RC-5: Risk-Informed Safety Margin Characterization

RC-6: Instrumentation, Information, and

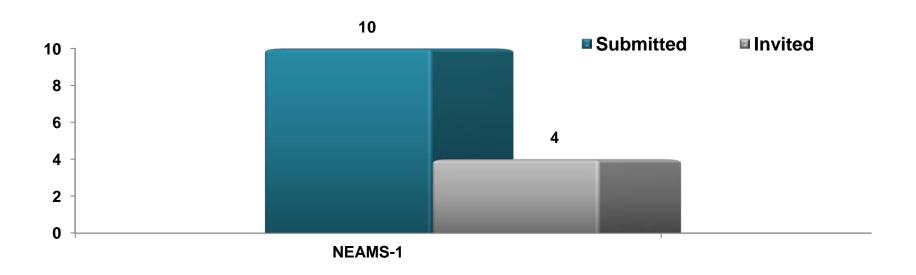
Control

RC-7: Radioisotope Power



#### **NEAMS (Section A)**

#### **Nuclear Energy**

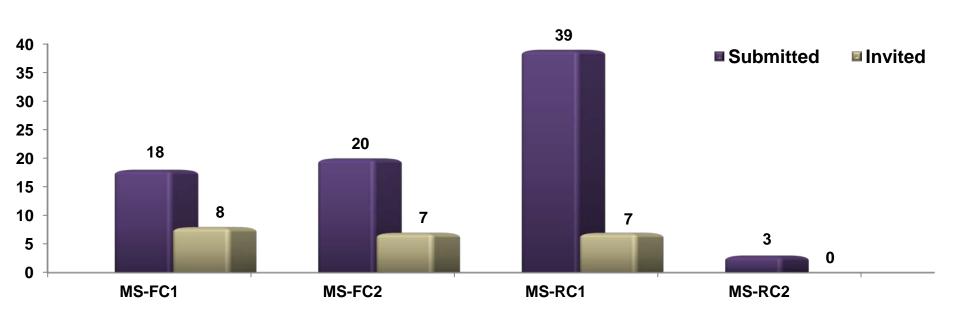


NEAMS-1: Validating NEAMS Fuel Pin Models



#### Mission Supporting (Section A)

**Nuclear Energy** 



MS-FC1: Fuel Resources

MS-FC2: Nuclear Data & Measurement

**Techniques** 

MS-RC1: Reactor Concepts RD&D

MS-RC2: Radioisotope Power Systems R&D



**Nuclear Energy** 

## Pre-Applications by State (Section A)





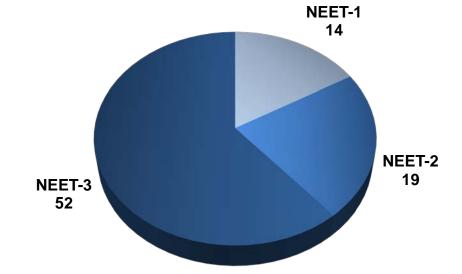
# Received Pre-Applications (Section B)

#### 85 pre-applications were submitted by 42 lead organizations

- 3 Industry/utilities
- 9 national laboratories
- 30 universities

#### 41 additional research organizations collaborated

- 21 universities
- 1 national laboratories
- 12 industry/utilities
- 2 others
- 5 foreign entities



#### ■ These organizations represent

- 32 states and the District of Columbia
- 2 minority-serving institutions (MSIs)
- 5 foreign countries

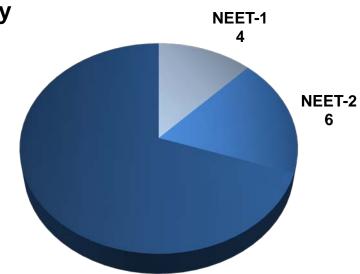


# Recommendations – Invited Pre-Applications (Section B)

**NEET-3** 

23

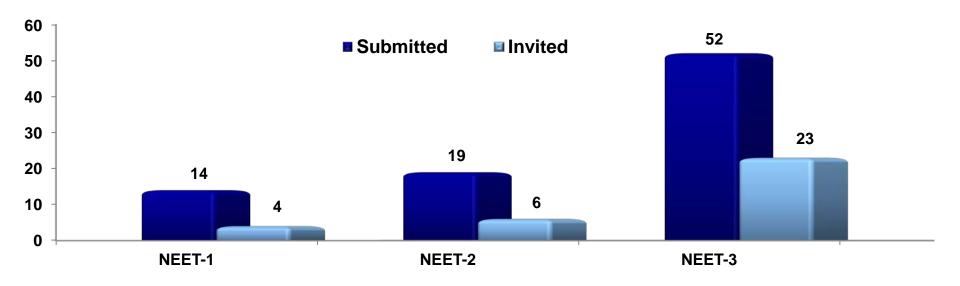
- 33 pre-applications to be invited to submit full proposals
- Invited pre-applications were submitted by 44 principal and collaborating research organizations
  - 23 universities
  - 10 national laboratories
  - 8 industry/utilities
  - 1 other
  - 2 foreign entities
- These organizations represent:
  - 24 states and the District of Columbia
  - 1 MSI
  - 2 foreign countries





### **Nuclear Energy Enabling Technologies (Section B)**

#### **Nuclear Energy**



NEET-1: Advanced Methods for Manufacturing

**NEET-2: Advanced Sensors and Instrumentation** 

**NEET-3: Reactor Materials** 



**Nuclear Energy** 

## Pre-Applications by State (Section B)

