

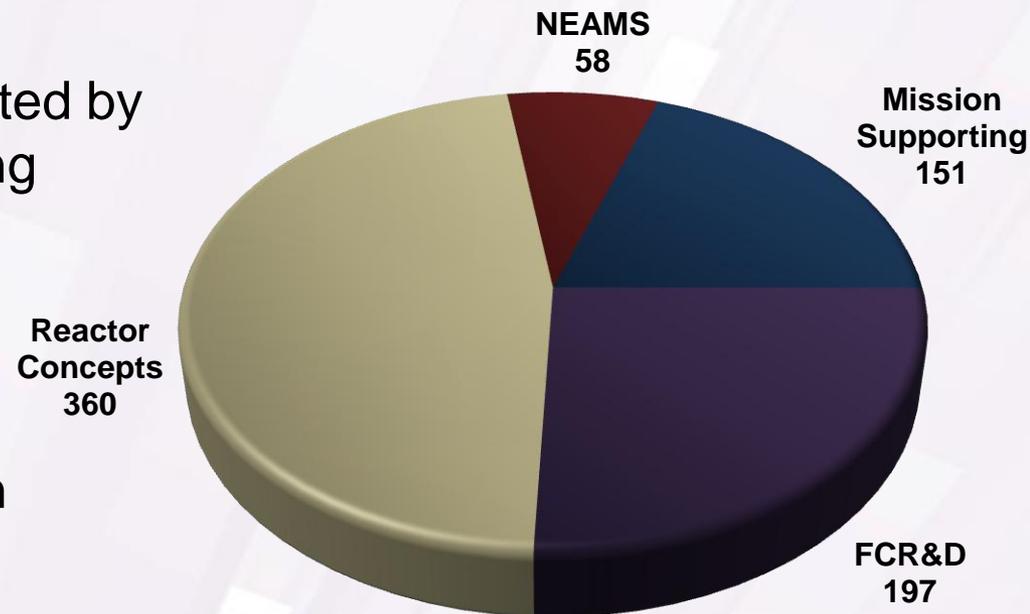
Nuclear Energy University Programs

FY2011 NEUP Request for Pre-Application Submission Demographics

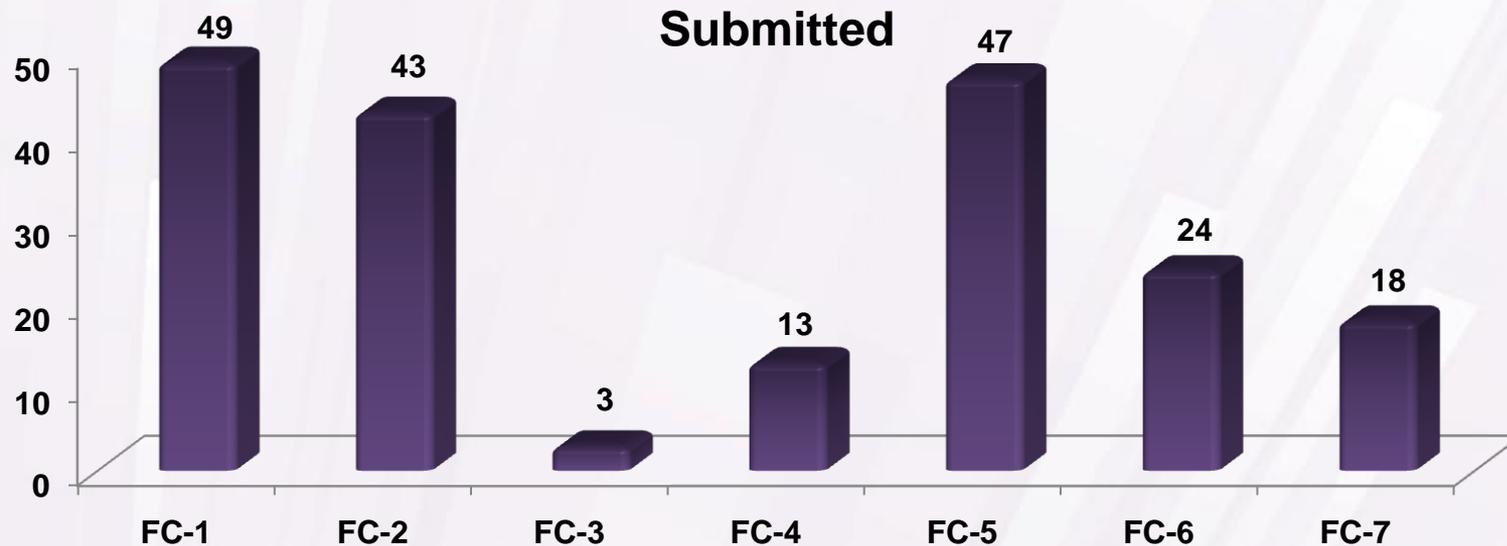


Submitted Pre-Applications

- NEUP received a total of 766 pre-applications
- Pre-applications were submitted by 199 principal and collaborating research organizations
 - 133 universities
 - 9 national laboratories
 - 43 industry
 - 14 other, including foreign entities
- These organizations represent
 - 41 U.S. states
 - 5 foreign countries
 - 19 minority institutions
 - 2 U.S. territories



Fuel Cycle R&D



FC-1: Separations & Waste Forms

FC-2: Advanced Fuels

FC-3: Nuclear Theory & Modeling

FC-4: Improved Measurement Techniques

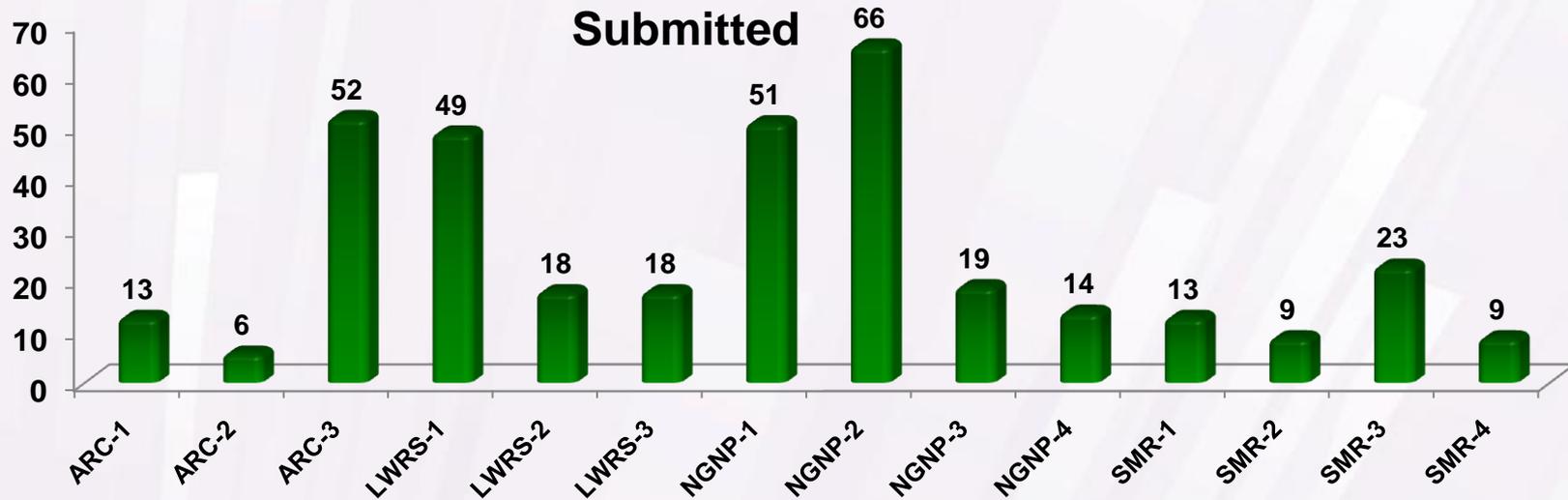
FC-5: Materials Protection, Accountancy, & Controls Technologies

FC-6: Used Nuclear Fuel Disposition

FC-7: Fuel Cycle Simulator



Reactor Concepts RD&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 & Control

NGNP-1: Computational Methodologies

NGNP-2: VHTR Materials

NGNP-3: VHTR TRISO Fuels

NGNP-4: VHTR Heat Transport, Energy Conversion, Hydrogen & Nuclear Heat Applications

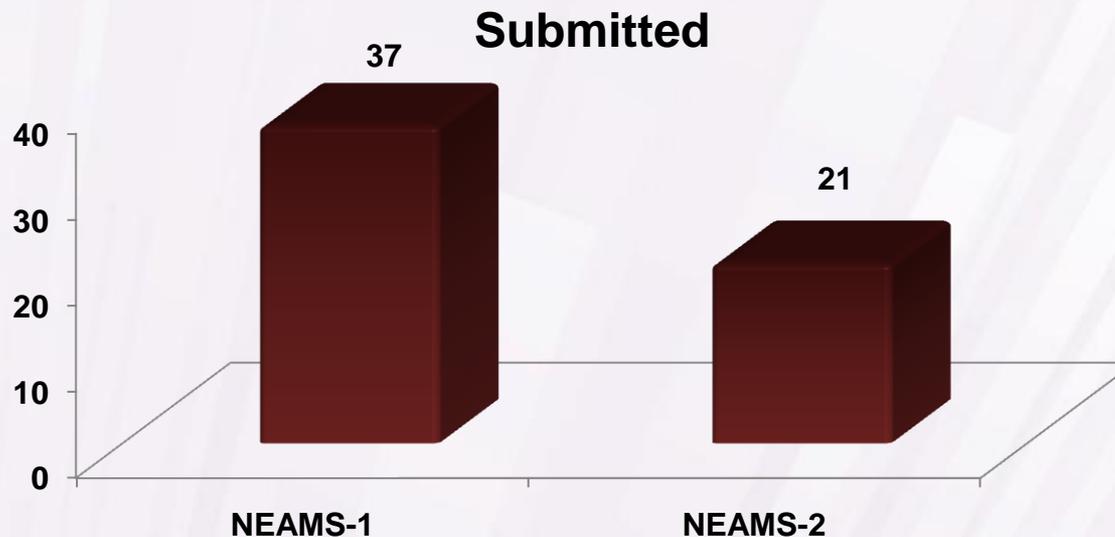
SMR-1: Novel Sensors

SMR-2: Instrumentation, Control, and Human-Machine Interface

SMR-3: Advanced Concepts

SMR-4: Assessment Methods

Nuclear Energy Advanced Modeling & Simulation (NEAMS)

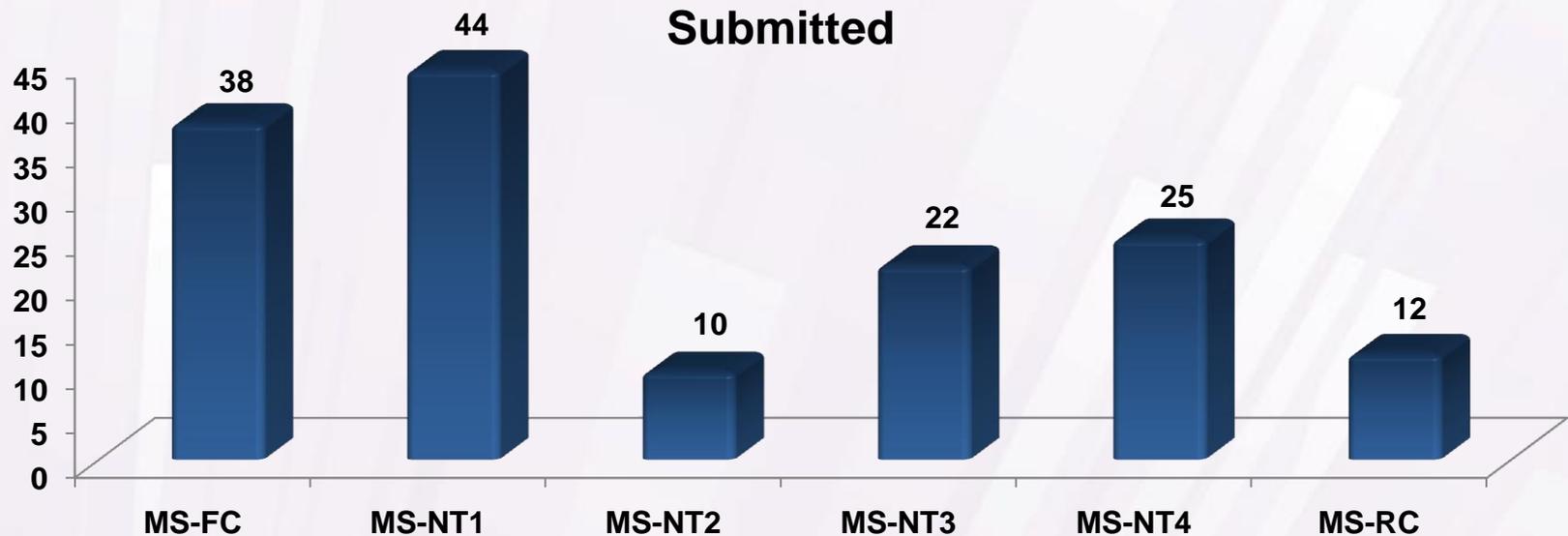


NEAMS-1: Development of Phenomena-based Methodology for Uncertainty Quantification

NEAMS-2: Development of More Efficient Computational Tools



Mission Supporting “Blue Sky”



MS-FC: Fuel Cycle R&D

MS-NT1: Reactor Materials

MS-NT2: Proliferation & Terrorism
Risk Assessment

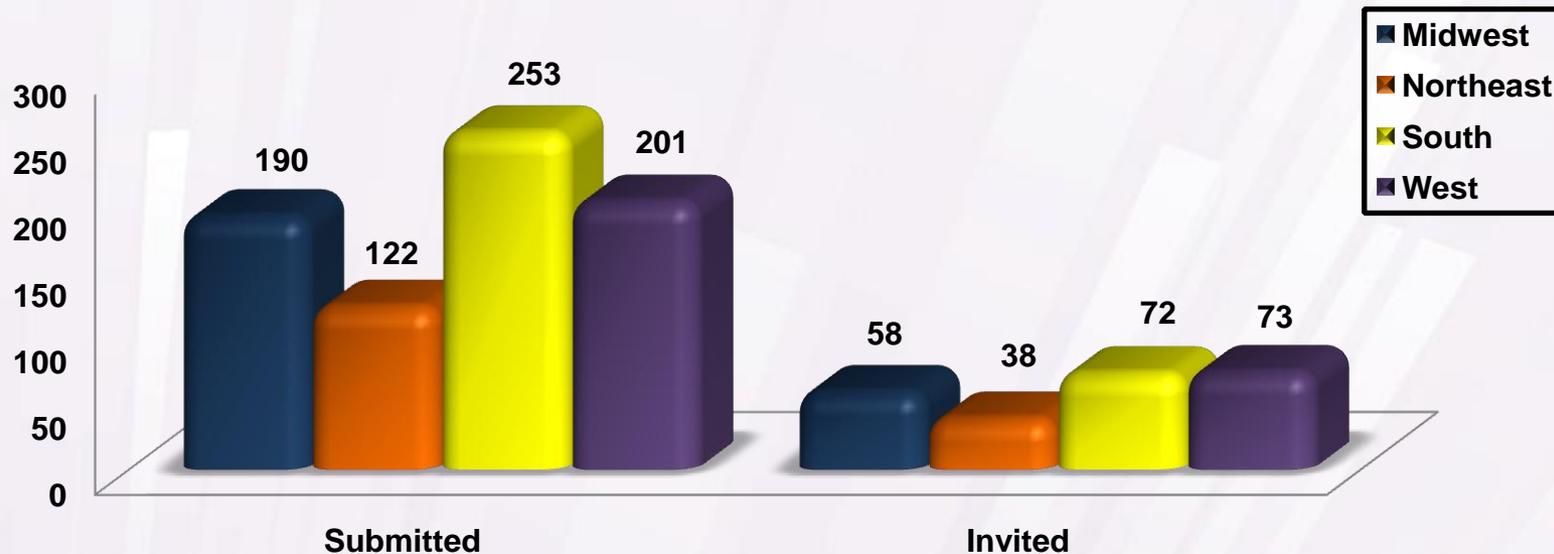
MS-NT3: Advanced Sensors and Instrumentation

MS-NT4: Advanced Methods for Manufacturing

MS-RC: Reactor Concepts RD&D



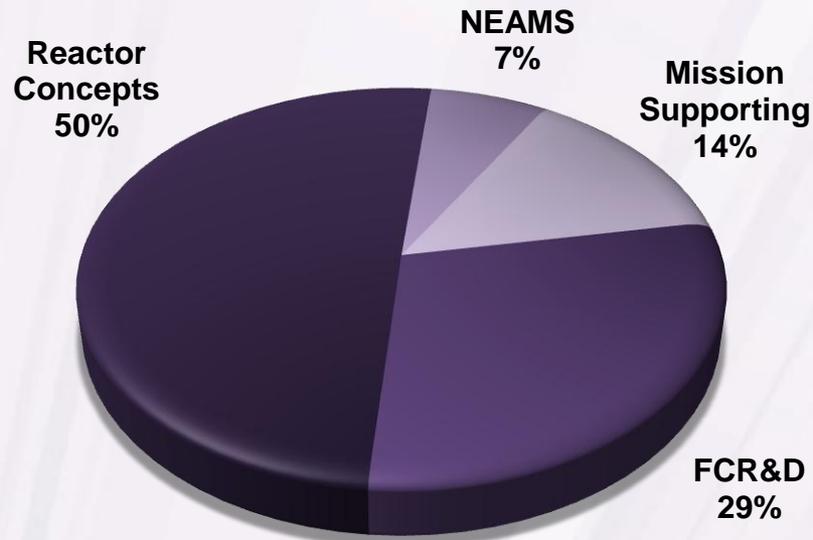
Pre-Applications by Region





Financial Request

Program	Submitted	Est. 2011 Budget
FCR&D	\$190,545,094	\$15,500,000
Reactor Concepts	\$328,138,361	\$15,200,000
NEAMS	\$44,532,888	(\$6,000,000)
Mission-Supporting "Blue Sky"	\$89,208,135	\$14,000,000
Total	\$652,424,478	\$44,700,000





Organizational Involvement

