

# Regional Center for Nuclear Education & Training



**Waste Management Conference**

**Phoenix, AZ**

**March 17, 2015**

# NSF ATE Background

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- **RCNET is an National Science Foundation (NSF) Advanced Technological Education (ATE) Center.**
- **There are 42 ATE Centers across a wide range of topics with a similar mission: to strengthen the skills of technicians, whose work is vitally important to the nation's prosperity and security.**
- **In ATE centers, community colleges have a leadership role and work in partnership with universities, secondary schools, businesses, industries, and government agencies to design and carry out model workforce development initiatives.**
- **RCNET was founded in August 2011 with a \$3.1M grant from NSF to focus on the nuclear industry.**



# RCNET's Mission and Goals

## RCNET's Mission

To make sure the demand for skilled nuclear technicians is met in a standardized and systematic way.



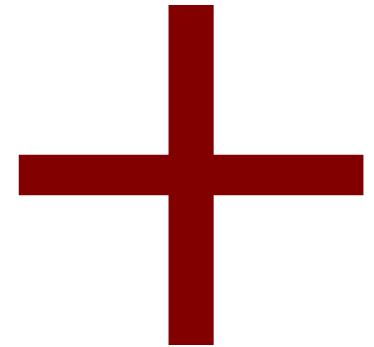
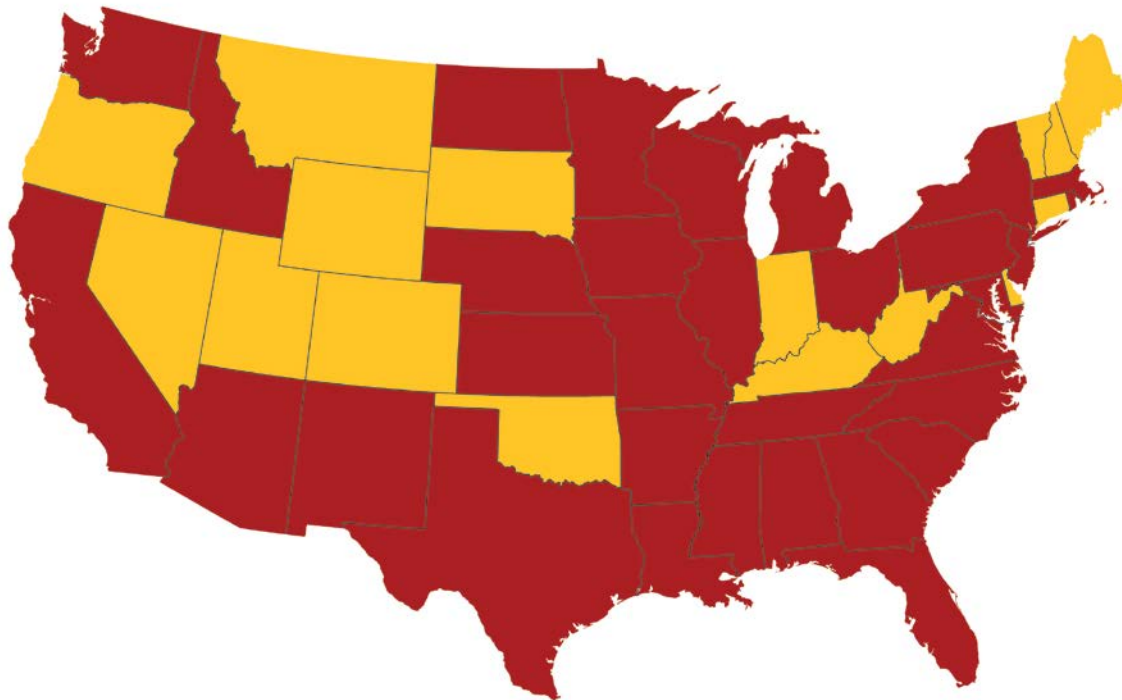
## RCNET's Goals

1. Provide standardized nuclear curriculum packages.
2. Develop, categorize, and maintain a learning repository for nuclear curriculum.
3. Provide professional development for educators.
4. Embed unique training systems and 21<sup>st</sup> century technologies into the classroom.
5. Provide career and academic pathways.
6. Provide career assistance.
7. Provide materials and assistance in secondary outreach and diversity recruitment.
8. Promote nuclear energy and nuclear careers.



# RCNET Partners

RCNET is headquartered at Indian River State College in Fort Pierce, FL and is a consortium of 50 colleges and universities, 70 industry partners, 14 agencies and other partners, and 7 countries.



# RCNET Partners



ENERGUS.

+40  
community  
colleges  
and  
universities

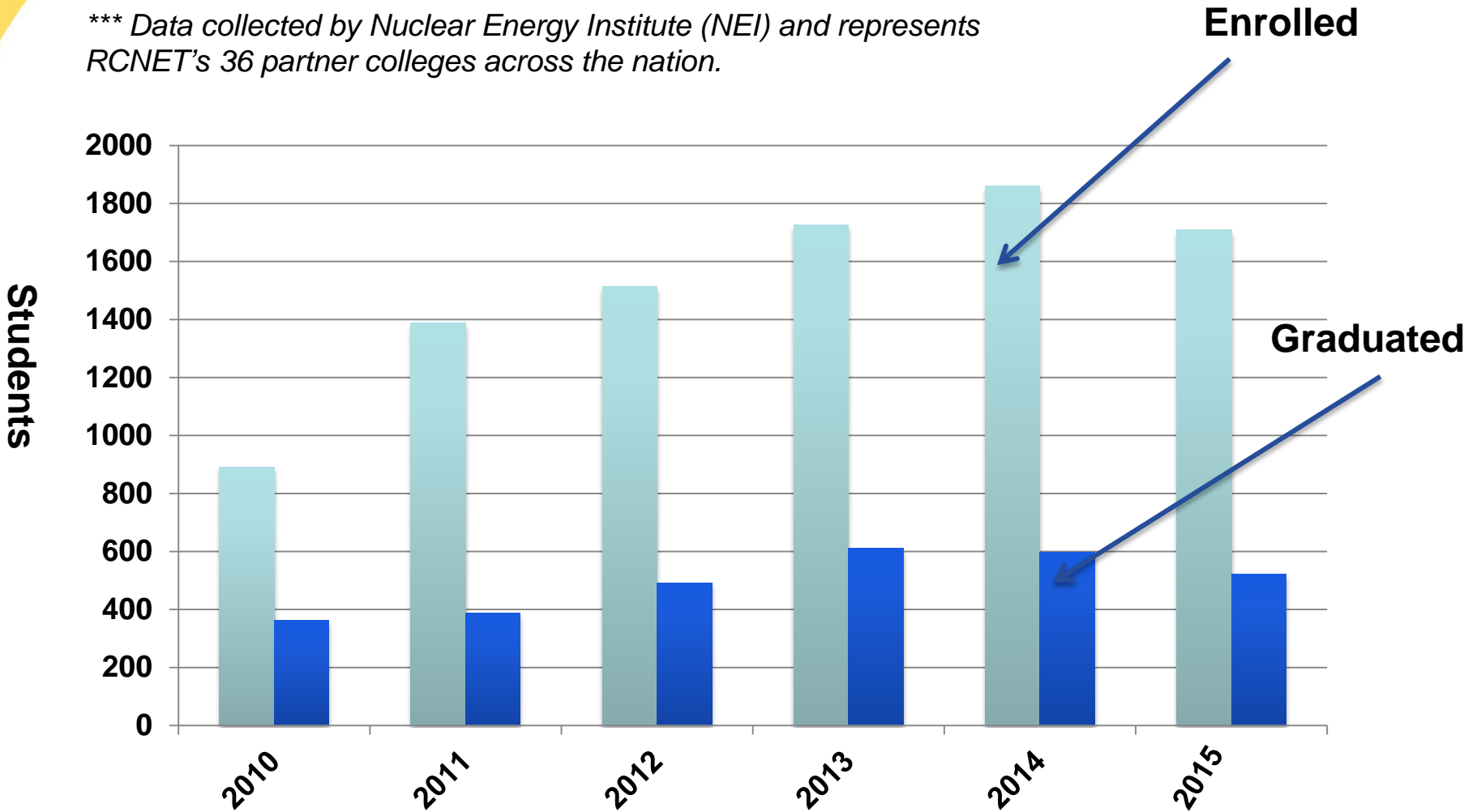


NUCLEAR ENERGY INSTITUTE



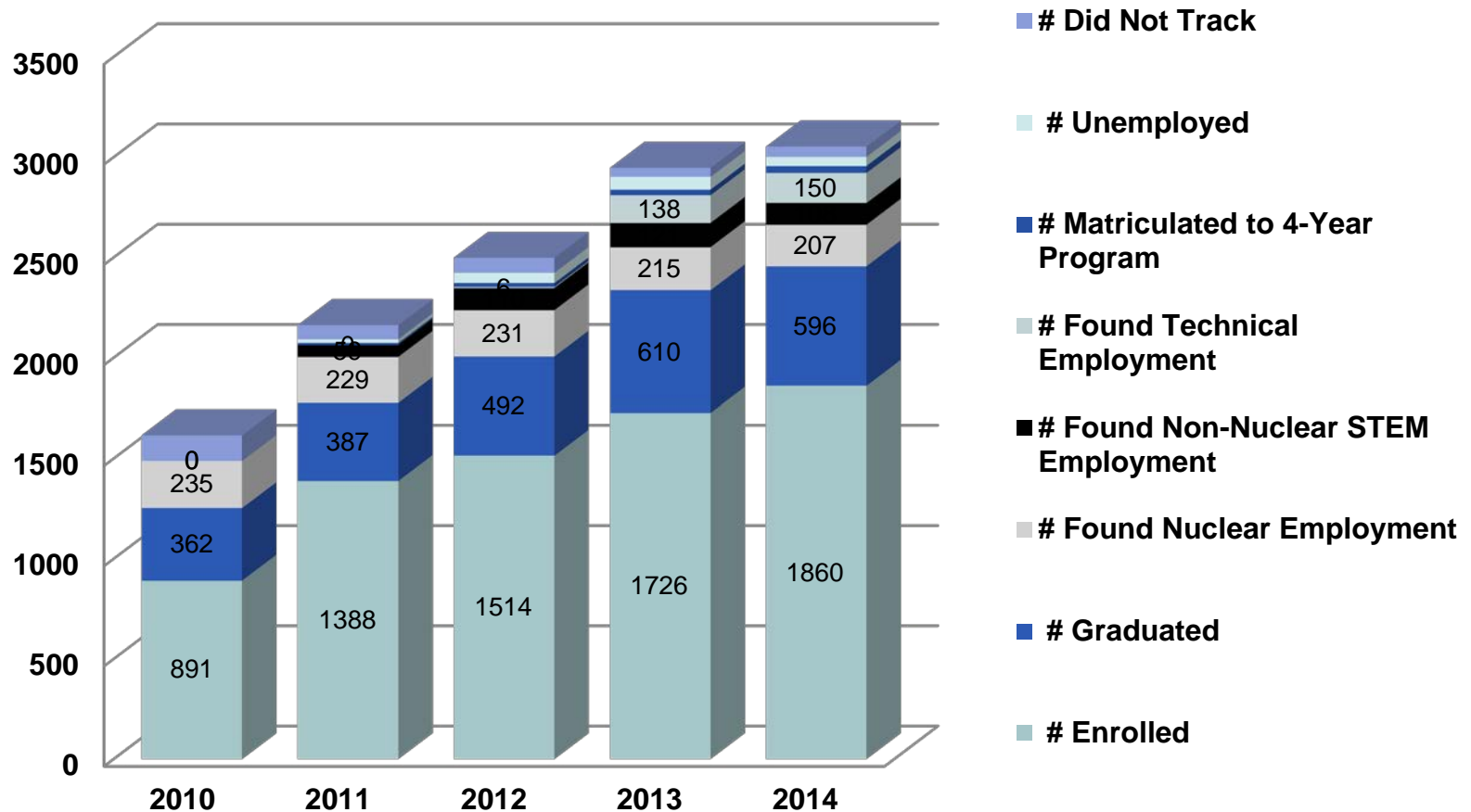
# RCNET Student Data

\*\*\* Data collected by Nuclear Energy Institute (NEI) and represents RCNET's 36 partner colleges across the nation.



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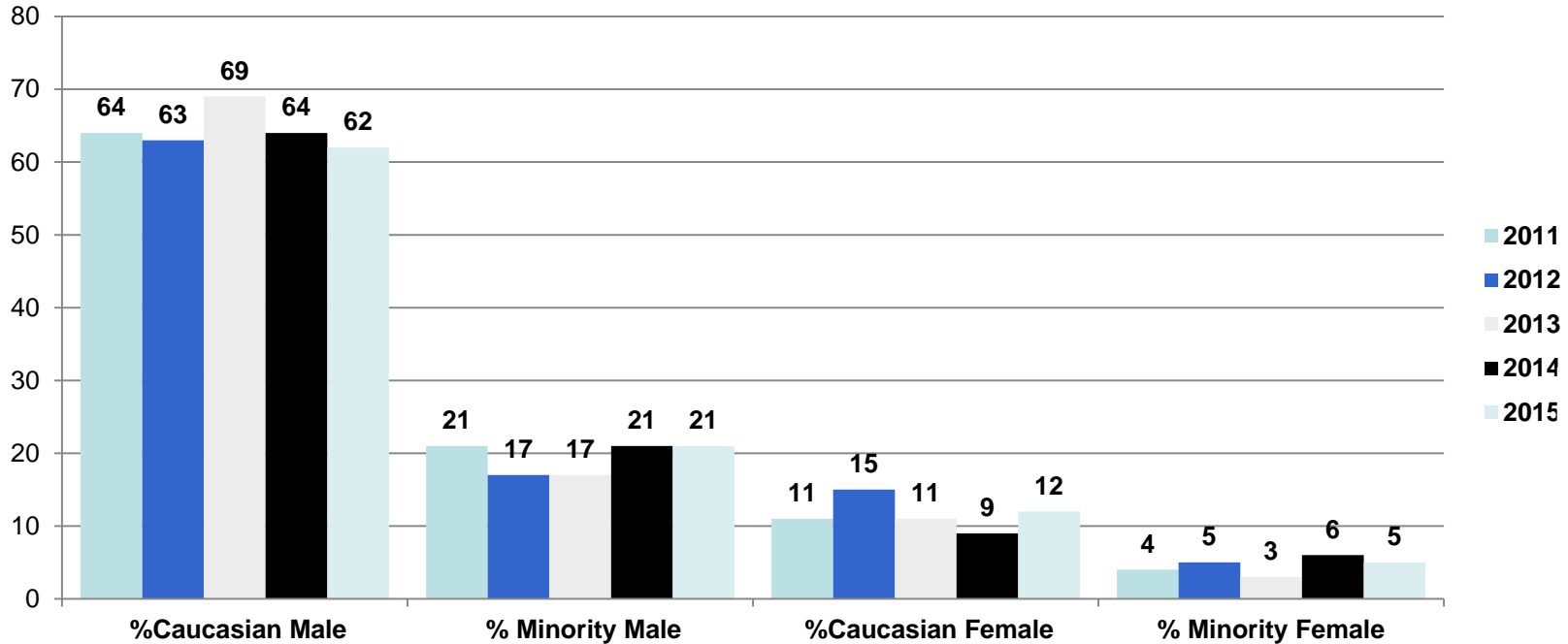
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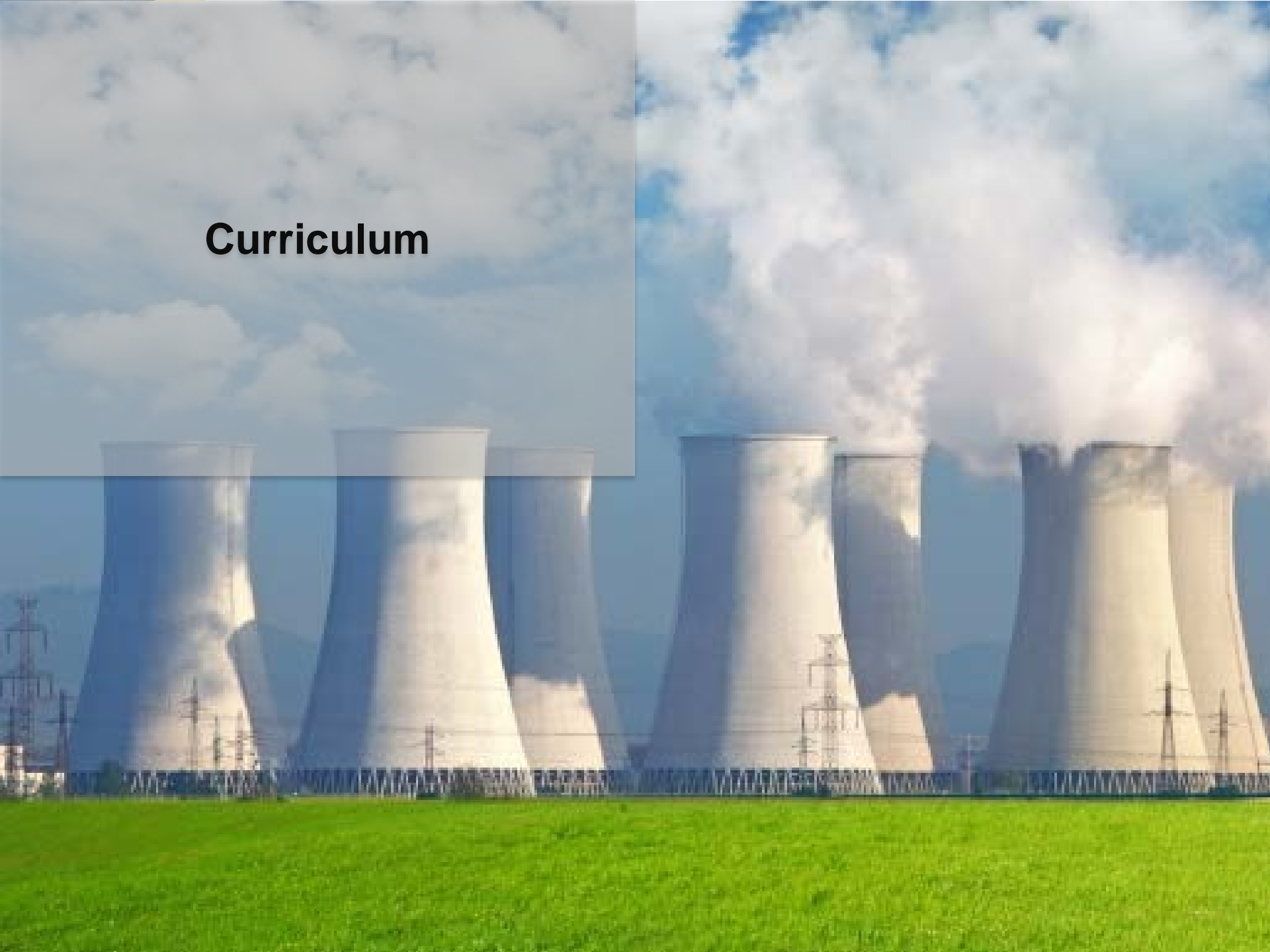
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# Curriculum



**Over 1100 Lessons Plans  
Matching ACAD Objectives**

## **Curriculum**

**12 Complete Classes**

**Labs, PBL, & Hands on  
Activities**



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## **Professional Development**



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**12 Events/Year**

**Impacting ~ 200 Teachers/Trainers**

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**Labs, PBL, & Hands on  
Activities**

## **Professional Development**

**4-6 Yearly Networking  
Events to Promote Best  
Practices**



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Matching ACAD Objectives**

## **Curriculum**

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**Labs, PBL, & Hands on  
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**Soft Skills**

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**Material on:**

**Creating a Nuclear Culture in  
the College Environment**

## **Soft Skills**

**Affective Teaching**

**Interviewing for Graduates**

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Events to Promote Best  
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**Labs, PBL, & Hands on  
Activities**

**Material on:**

**4 Year Articulations with 4 Universities**

**Creating a Nuclear  
Culture in the College  
Environment**

**Student Networking  
Opportunities with  
Employers**

### **Soft Skills**

### **Career & Academic Pathways**

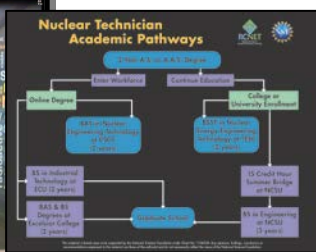
**Affective Teaching**

**Career & Academic  
Pathway Material**

**Interviewing for  
Graduates**

# Summary Other RCNET Products

Product(s)	Target Audience	Type & Location of Materials
Marketing & outreach materials	Academic and industry outreach specialists	RCNET and partner's marketing material including videos, brochures, fact sheets, images, and other printed material available at <a href="http://gonuke.org">gonuke.org</a> .
Job bank	NUCP graduating students & hiring managers	At <a href="http://gonuke.org">gonuke.org</a> website. NUCP graduating students can load their resume and hiring managers can sort and search through it on this protected site.
Academic & career flowcharts	NUCP students	Flow charts on career and academic pathways are available on the <a href="http://gonuke.org">gonuke.org</a> website



**Regional Center for Nuclear Education & Training**

**Mission**  
To make sure the demand for skilled nuclear technicians is met in a standardized and systematic way.

**Goals**

1. Provide standardized curriculum for maintenance, operations, radiation protection, and QA/QC technicians.
2. Develop, organize, and maintain a learning repository for nuclear curriculum.
3. Provide professional development.
4. Provide remote access and lesson plans to enable unique training systems.
5. Provide career pathways and professional development for students and technicians.

**Partners**

Workshops throughout the United States should be held.



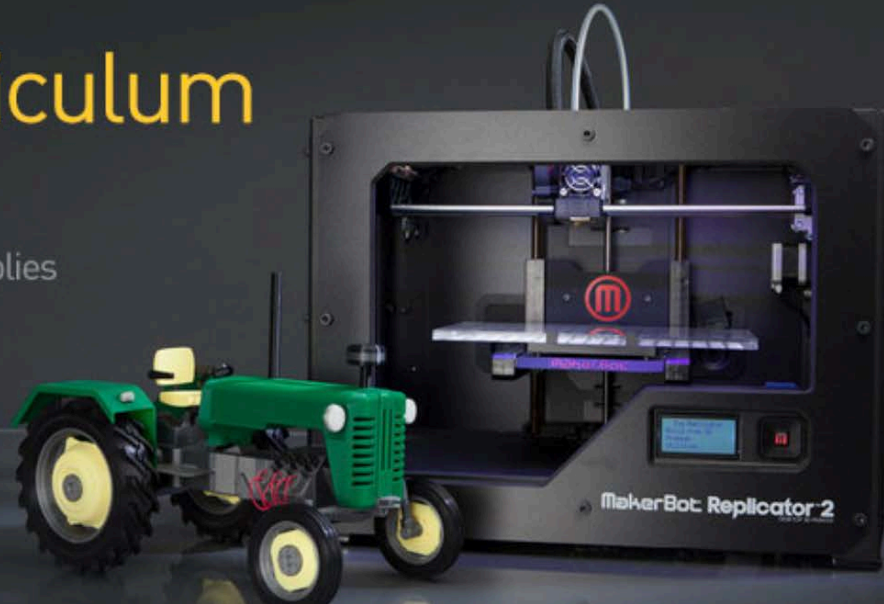
Curriculum Challenge

# Nuclear Curriculum Challenge

Win a 3D printer and \$1000 of supplies for your school.

[CLICK HERE TO ENTER](#)

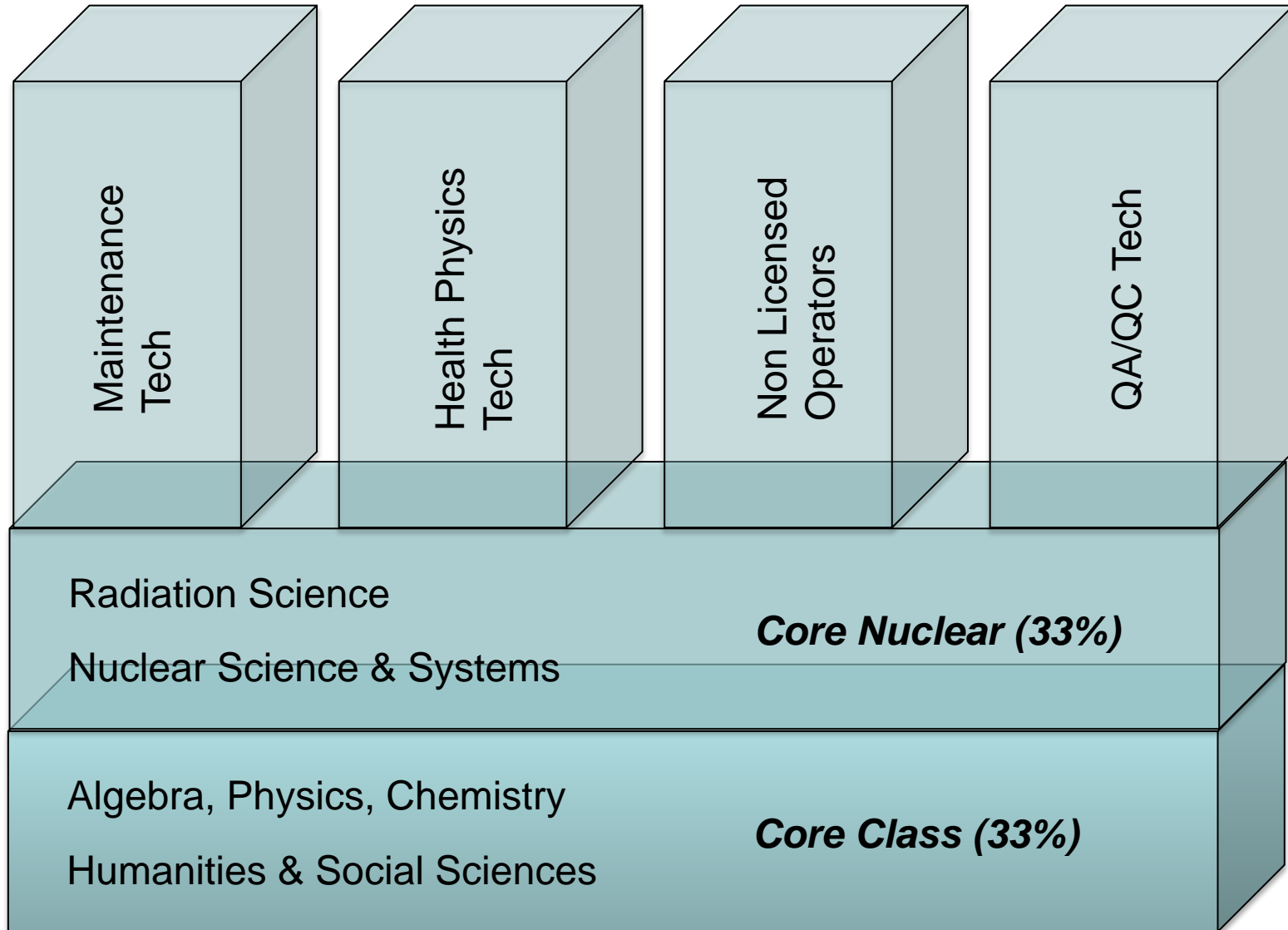
\*ACTUAL PRINTER MAY VARY



**Nuclear e-Learning Challenge**  
An Opportunity for Your School to Win \$2000

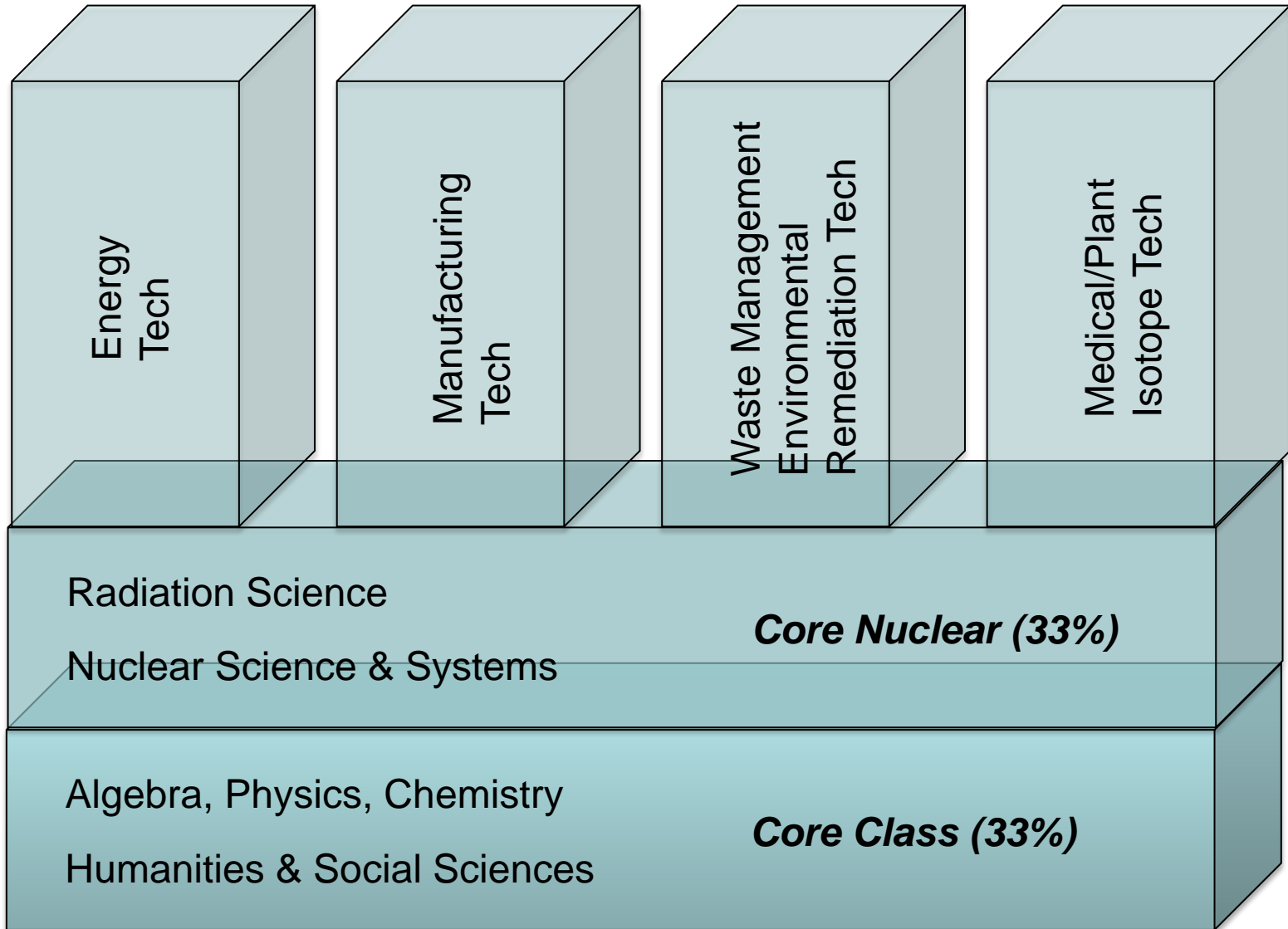


# Current RCNET Programs – AS Degrees





# Where RCNET is Heading





# Thank You

**Kevin Cooper**  
**Dean, Applied Research & Entrepreneurial Activities**

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