

Core Competencies and Collaboration among ATE Centers

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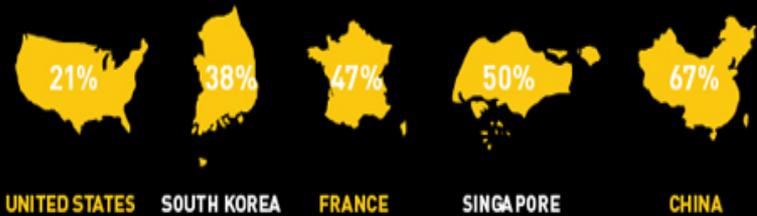
Manufacturing and Applied Engineering
ATE REGIONAL CENTER OF EXCELLENCE



www.atecenters.org



THE PROPORTION OF U.S. GRADUATES EARNING **DEGREES IN NATURAL SCIENCES AND ENGINEERING** IS SMALL COMPARED TO GRADUATES IN OTHER COUNTRIES

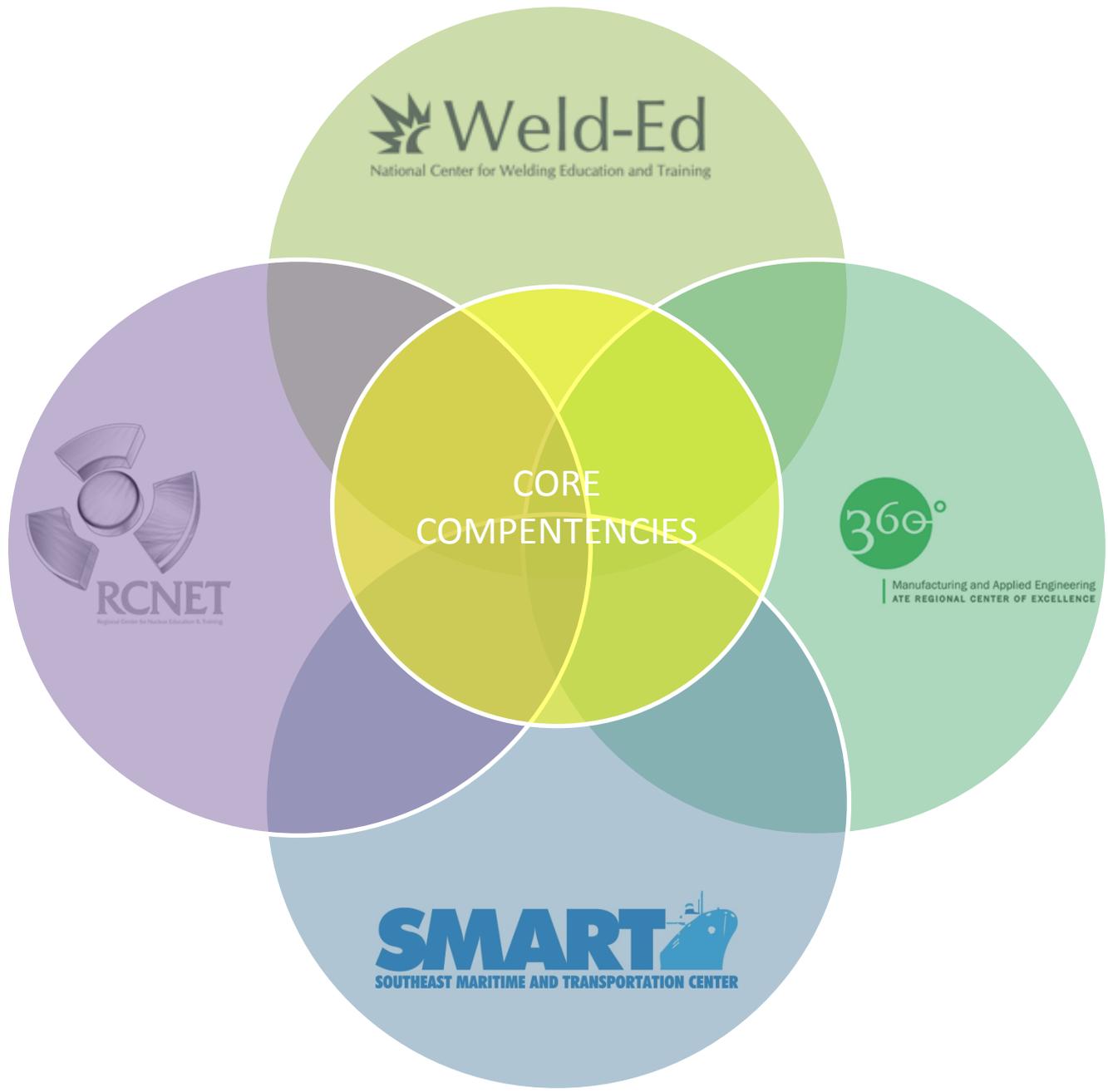


OF ALL THE ENGINEERING TECHNICIANS WORKING IN 2008, **33%** WERE ELECTRICAL AND ENGINEERING TECHNICIANS; **34%** WORKED IN MANUFACTURING; AND **25%** WORKED IN PROFESSIONAL, SCIENTIFIC, AND TECHNICAL SERVICE INDUSTRIES.

ELECTRICAL AND ELECTRONIC ENGINEERING TECHNICIANS	164,000
CIVIL ENGINEERING TECHNICIANS	91,700
INDUSTRIAL ENGINEERING TECHNICIANS	72,600
MECHANICAL ENGINEERING TECHNICIANS	46,100
ENVIRONMENTAL ENGINEERING TECHNICIANS	21,200
ELECTRO-MECHANICAL TECHNICIANS	16,400
AEROSPACE ENGINEERING AND OPERATIONS TECHNICIANS	8,700
ENGINEERING TECHNICIANS, EXCEPT DRAFTERS, ALL OTHER	76,600



Collaborations focus on common core competencies used to educate, train, and employ students across a variety of industries.



 **Weld-Ed**
National Center for Welding Education and Training


RCNET
Regional Center for Nuclear Education & Training


Manufacturing and Applied Engineering
ATE REGIONAL CENTER OF EXCELLENCE

SMART 
SOUTHEAST MARITIME AND TRANSPORTATION CENTER

CORE
COMPENTENCIES

Multi-center collaborations allow for sharing of best practices, need fulfillments, and broadened job opportunities for students.

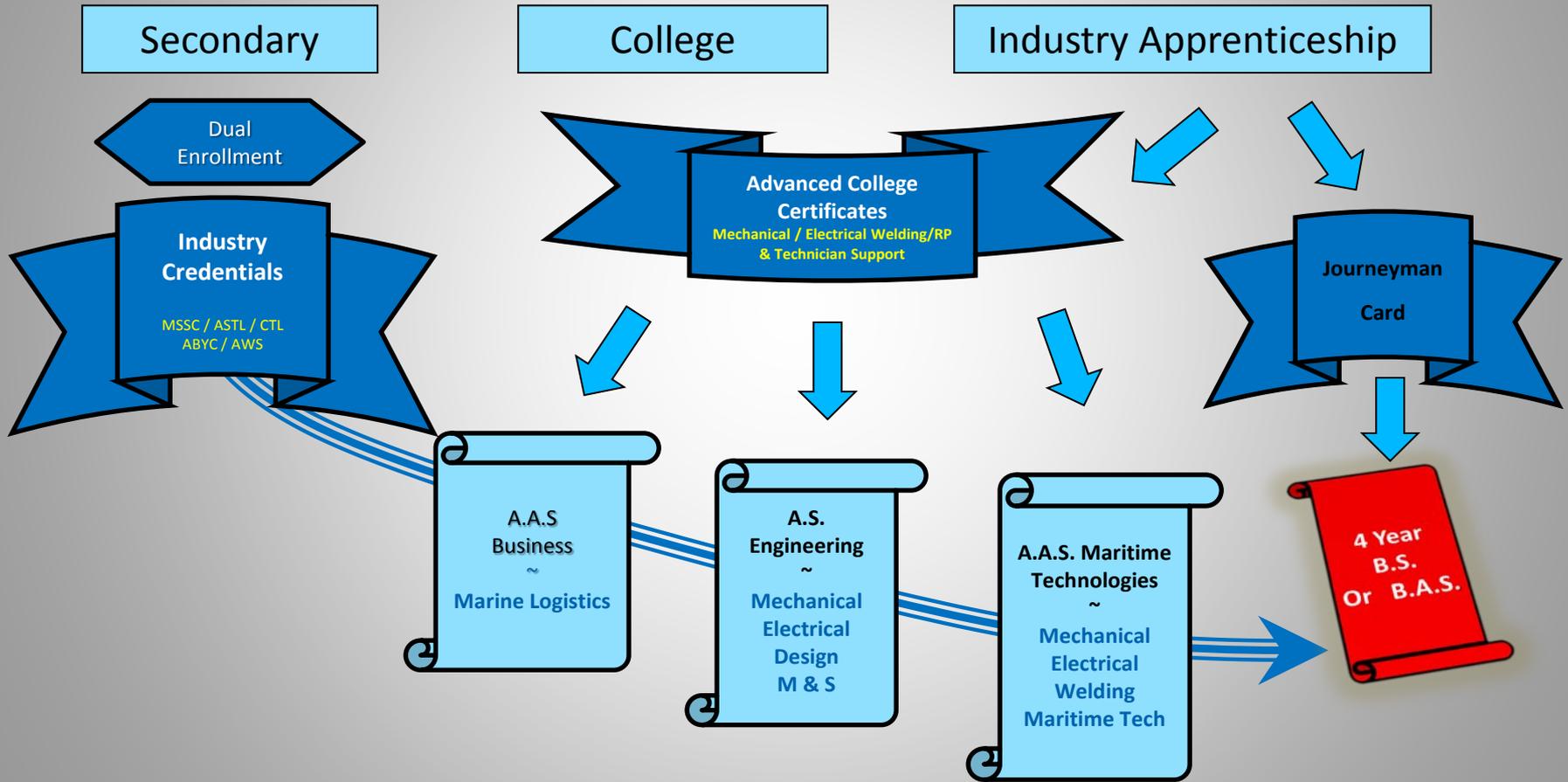


Collaboration

- Implemented 2 hybrid, professional development Weld-Ed courses for over 25 current marine welding instructors who teach on average 75 students each
- Participants teach in high schools, community colleges and industry

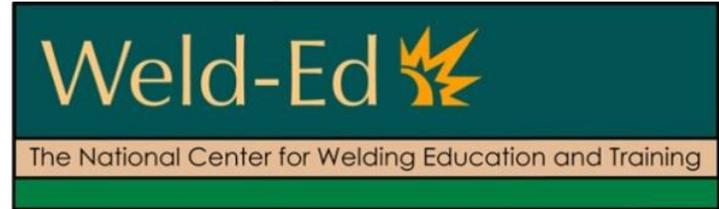


Career Pathways Technical Skills in Demand



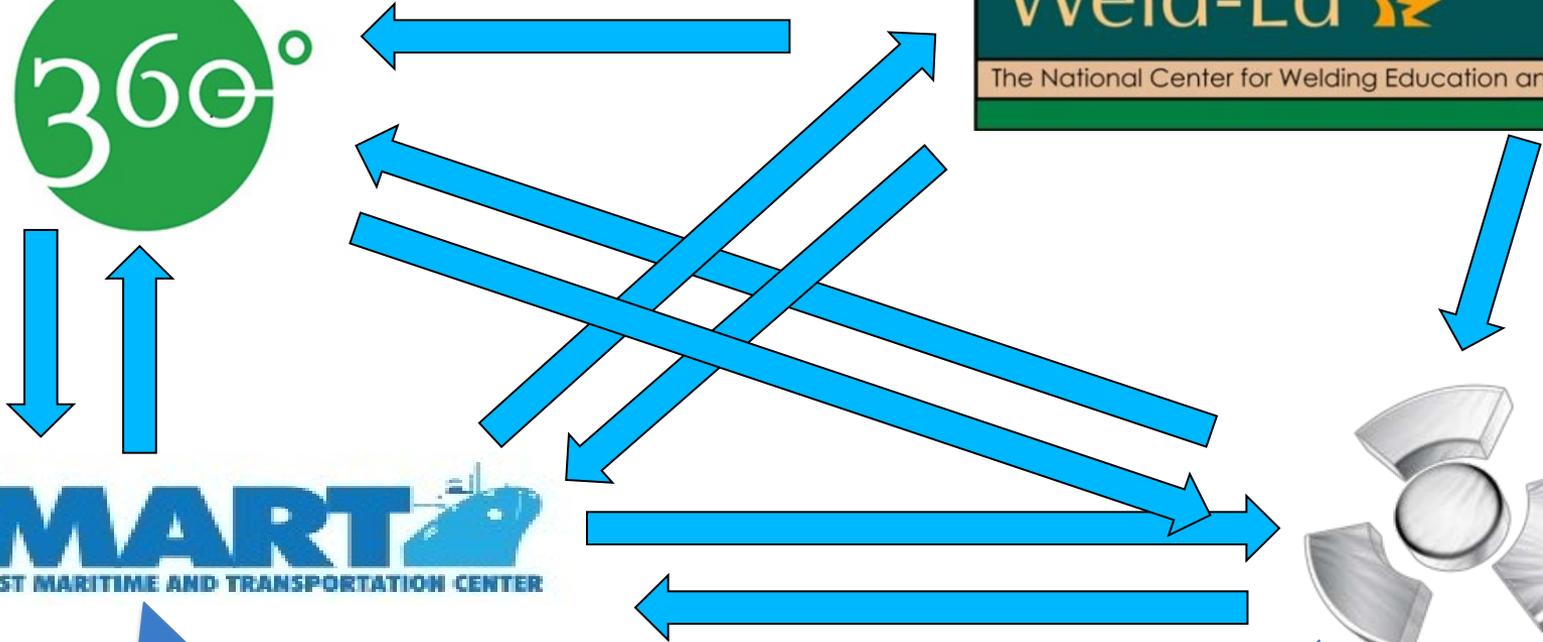
Instrumentation
& Process,
Mechatronics

Advanced Welding



Maritime Welding, PLC,
Ship Systems

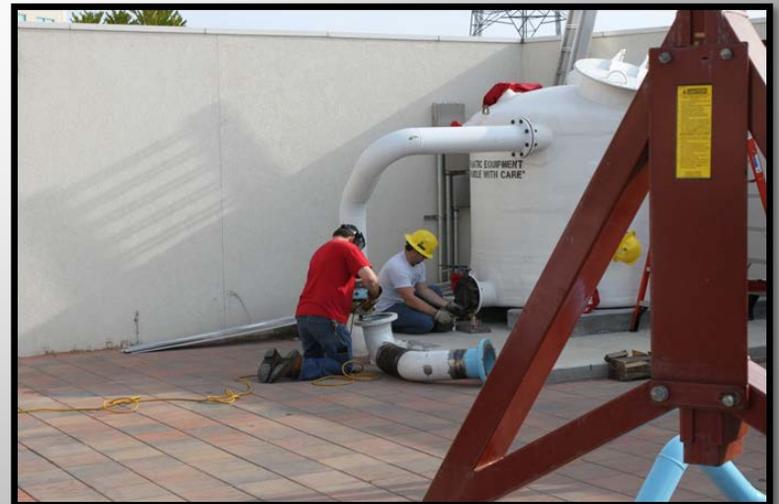
Radiation
Protection,
I&C





ATE Collaboration Best Practice Example

- Visiting Instructor program to exchange relatable skills and best practices
- Webinars
- Job Announcements
 - Broadened job opportunities



Questions/Comments

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