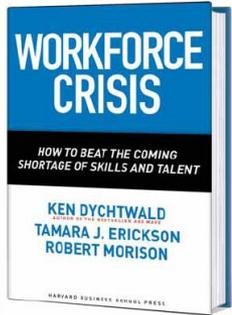
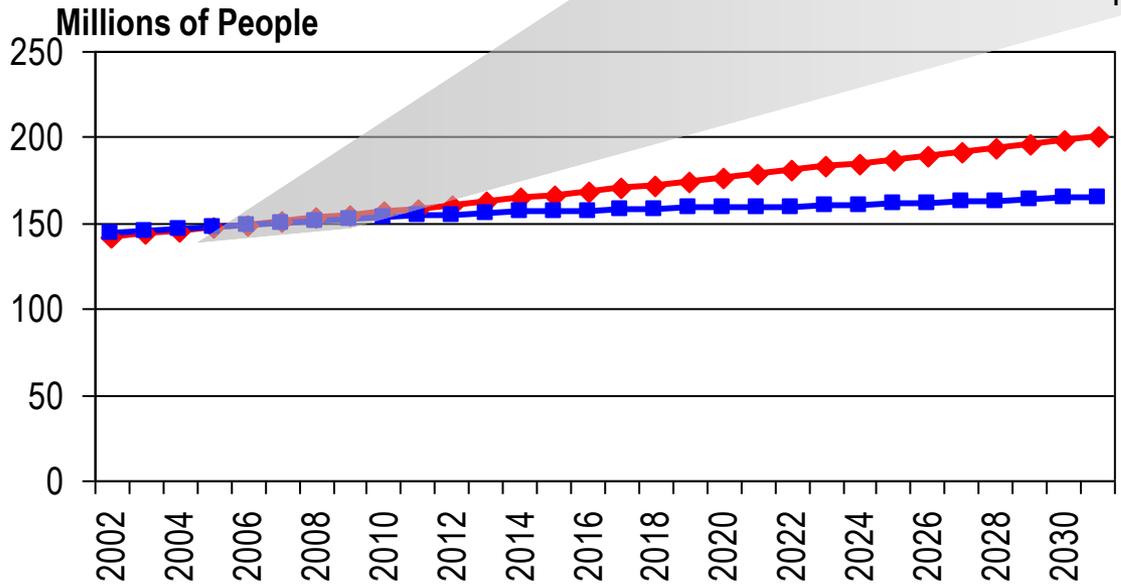


Shifting Demographics

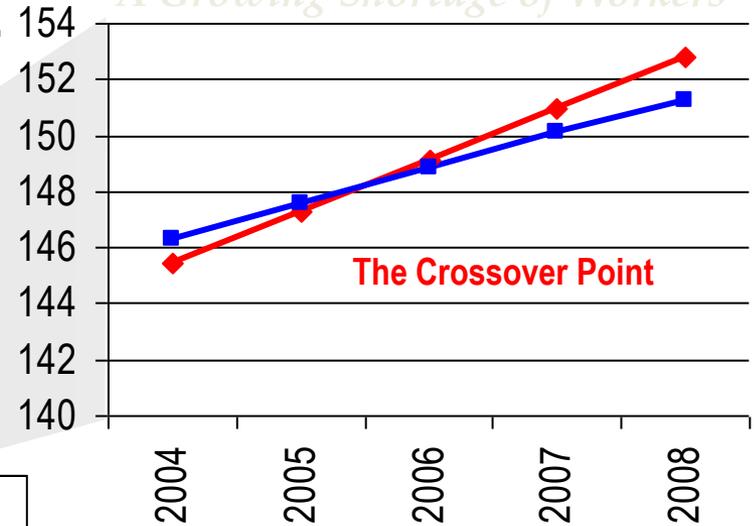


Shifting Demographics are the wake-up call to demand robust Workforce Planning and Re-engineering of the Workforce Pipeline.

Expected Labor Force and Labor Force Demand



The Lines Are Crossing:
A Growing Shortage of Workers



Source: Employment Policy Foundation analysis and projections of Census/BLS and BEA data.

“Grow your Own” Educational Continuum

INDUSTRY PARTICIPATION

Middle
School

Lego
League
Summer
Camps
STEM
Reading
Program
Tutoring
Program

High
School

Dual
Enrollment
*Future
Focus*
Summer
Internship
Technology
Fair
Marketing
“Get Set”

Community
College

AAS/AS
Degrees
Industry
Curriculum
Work-based
Learning
W.I.B./Youth
Works
WorkKeys/
CRC
Apprentice

4-year
University

Bachelors
Degree

University
of Virginia

CAER

R & D

Graduate
Education

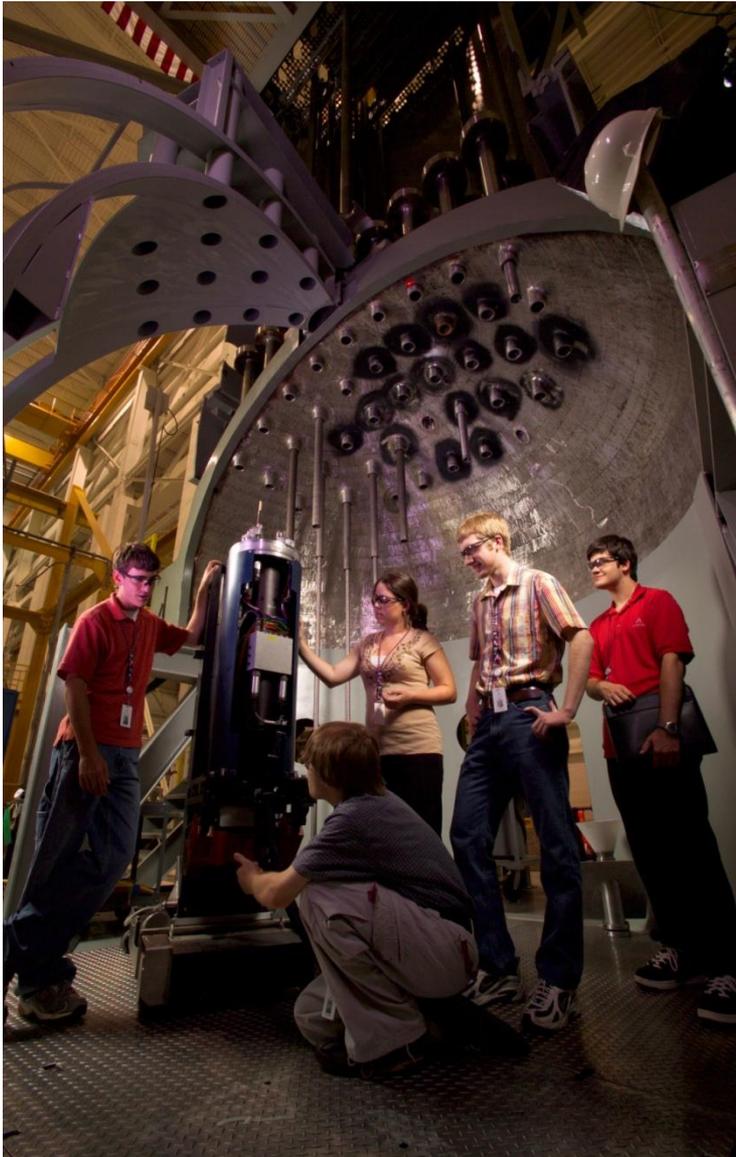
“local talent for local companies”

Middle School Activities

- NSF Science modules
- Summer Academies
- Lego League
- Professional development
- STEM reading program



High School Activities



- Career coaches/fairs/marketing
- FIRST Robotics
- CTE/Dual Enrollment
- Internships/co-op
- Apprenticeships
- NEED Conference
- Professional development
- NSF Science modules
- Work Keys Assessments



Post - secondary Activities

AAS Degree

- Work based learning
- Industry curriculum
- Competency based

Engineering Program

- AS/BS (2+2) Engineering Degree
- Company Sponsorship
- Scholarships

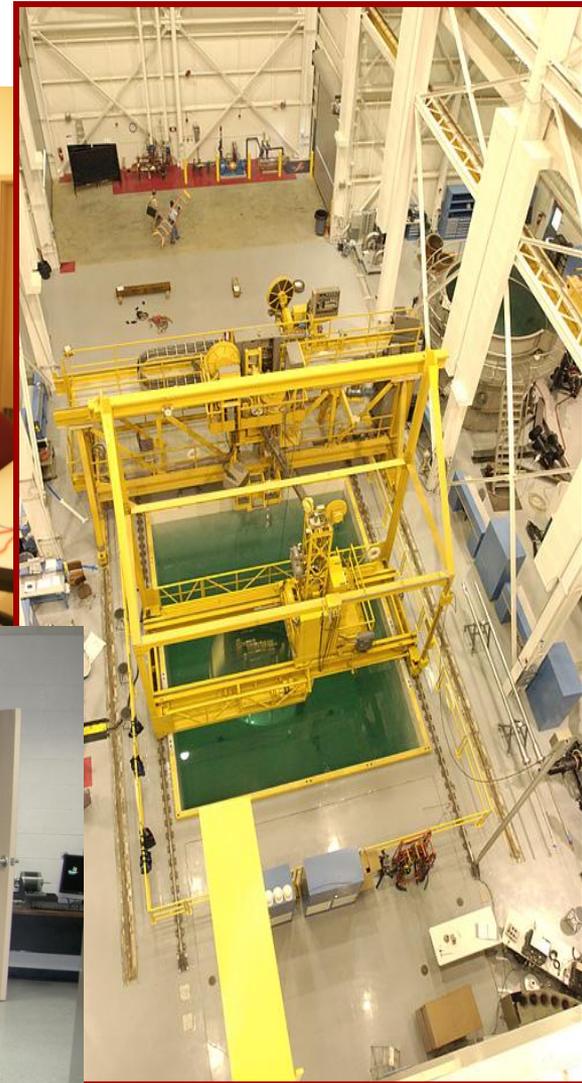
Research and Development

Computational fluid dynamics

Cognitive radio technology

Non -destructive measuring

Welding process improvement





Questions?

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