

U.S. DEPARTMENT OF LABOR

ETA VISION 2030 WORKFORCE CONVENING

USING COMPETENCY MODELS TO SPARK SKILL DEVELOPMENT

MAY 16-18, 2023

National Talent Pipeline Development Initiative

The NIIT is responsible for a national strategy and infrastructure to develop the talent pipeline to support strategic industries

- Attract and engage a broader segment of the population
- Connect industry, education and job seekers
- Develop the talent pipeline for industries central to national security and global competitiveness
- Support regional and place-based economic development and national security priorities

The National Talent Hub is a critical component of the infrastructure and the national strategy.

TPDI Key Components



Infrastructure to build and connect the talent pipeline

- Database/portal to connect industry-educationtalent (National Talent Hub)
- Industry engagement process to inform workforce standard database
- Curriculum alignment process to ensure courses meet needs

Programs linked to industry standard to provide career and education pathways

- K-12
- Community College/University
- Adult/veteran training

Mechanism to scale the initiative

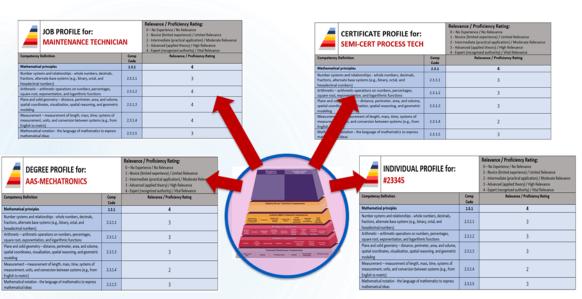
- National infrastructure supporting regional needs
- Industry / academia / government partnerships
- Public / private sector investment

TPDI / National Talent Hub (NTH) History

- 2010 Initiated in at the request of the Obama Administration
- 2012 Initial pilot in NY to develop ecosystem to support GlobalFoundries
- 2014 Further input on national model through Advanced Manufacturing Partnership (AMP)
- 2017 Initial Discussions with DOL-ETA to leverage / enhance Competency Models
- 2018 NTH framework developed to be nation's first dynamic, integrated system
- 2019 NTH development expedited via NSF-ATE support
- 2019 Redesign of Advanced Manufacturing Competency Model to create "unified" approach
 (Enables translation across industry sectors to promote systematic development of transferable skills as
 foundation across sectors; enables translate of credentials, certificates, degrees to industry requirements)
- 2019 Industry engagement to create "Comprehensive Competency Standards Database" for NTH
- 2021 Deployment of NTH in pilot regions
- 2021 First GAINS Registered Apprenticeship pilot successfully launched
- 2021 NIIT awarded nation's first (exclusive) semiconductor/nanotechnology RAP contract
- 2022 Nation's first Semiconductor Standard developed and is housed in NTH database, making it dynamic
- 2022 NTH goes live with community colleges and I support of NIIT Registered Apprenticeships

Process Informed by Industry Standard

Competency database used to align course curriculum to industry and individual needs

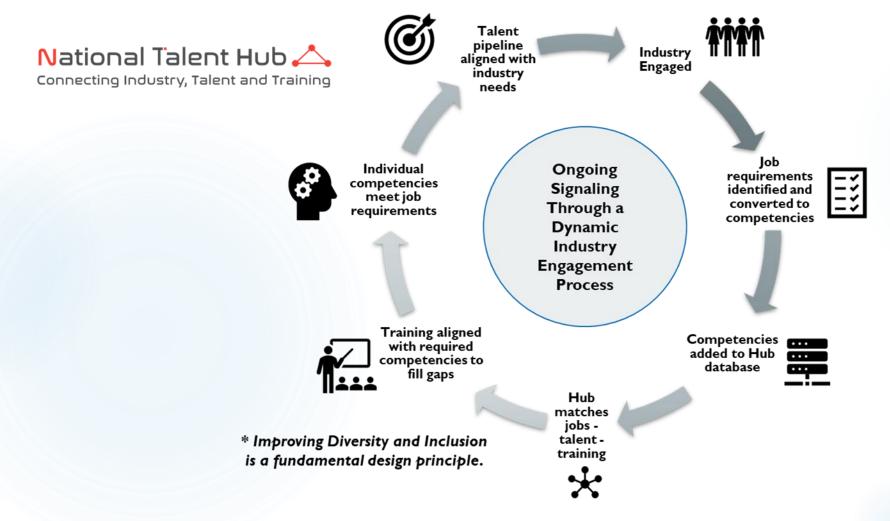


Aligned courses provide career and education pathways

- K-12 Post Secondary Course Alignment
 - Skills Based Learning
 - Advanced Manufacturing ECHS Programs
 - CTE Programs
- Pathways to Apprenticeship/Careers
- Competency Based Apprenticeships
- Veterans Training & Placement Programs
- Career Readiness Programs
- Returning Citizen 'Fresh Start' Programs



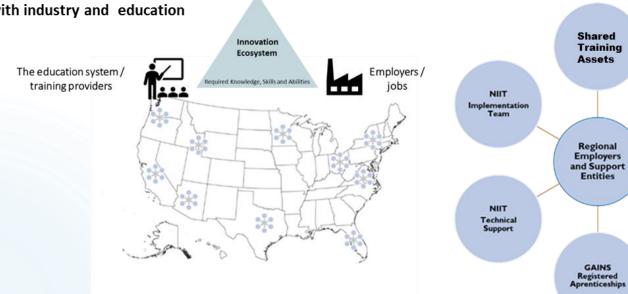
The Only Integrated, Comprehensive Approach to Developing the Talent pipeline



Deployment of the TPDI and National Talent Hub

National Talent Hub

The nation's integrated portal to build and connect the talent pipeline with industry and education



Job seekers / the workforce

Talent Development Hubs

Structured Outreach &

Engagement

National Talent Hub

Apprenticeship Pathways

established in each regional hub

Interconnected Education Pathway Aligned with Target Industries / Employers

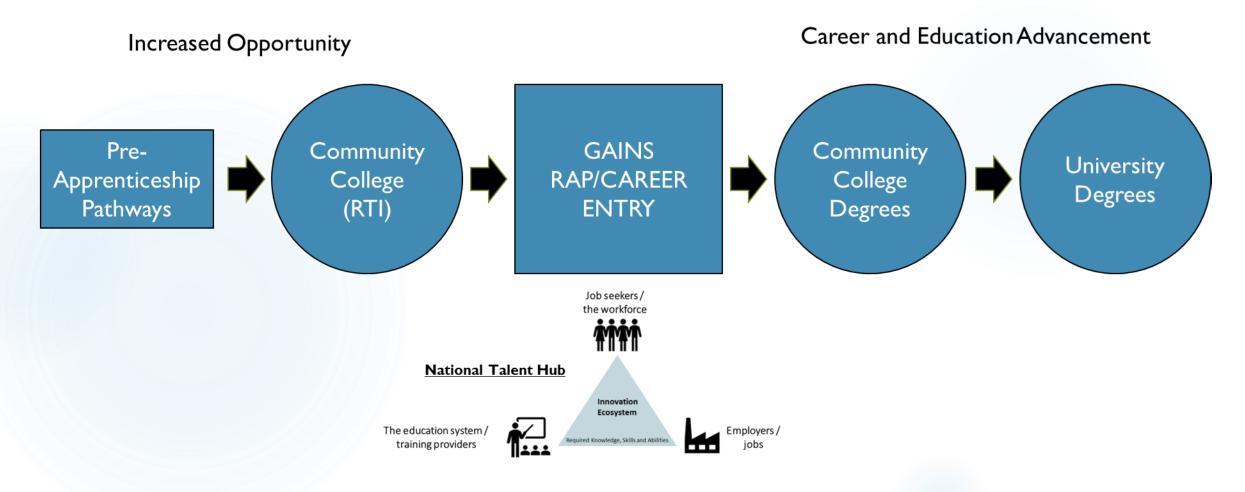


Align All Ecosystem Programs With Target Industry Requirements

Experiential Learning Programs → Advanced Manufacturing Early College High School (ECHS) → Career and Technical Education (CTE) → GAINS Registered Apprenticeships

Broadening the Career and Education Pipeline...

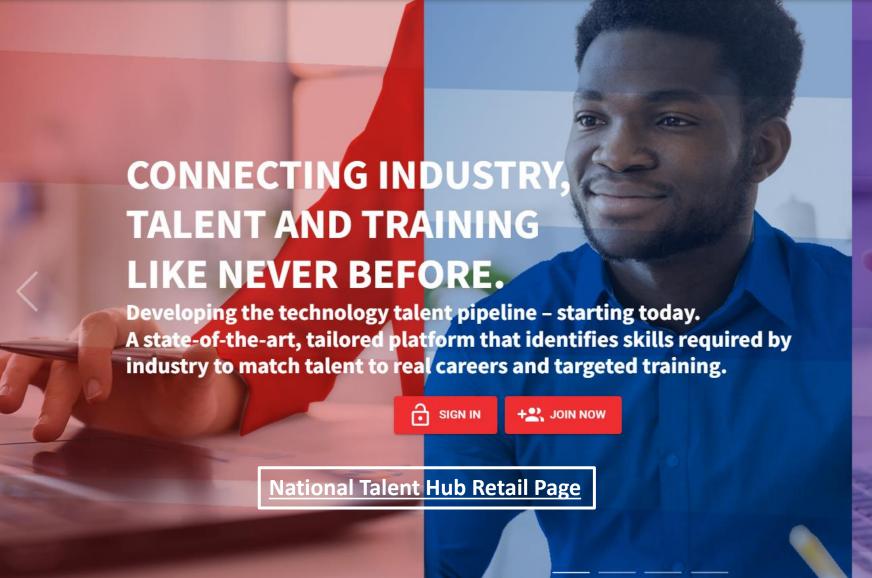
Increasing Access to Careers and Advancing Education Through Registered Apprenticeships



HOME

National Talent Hub

Connecting Industry, Talent and Training



National Talent Hub Demo

The National Talent Hub

- The nations only dynamic system enabling real time alignment between detailed job skill requirements, course curriculum and individual skill profiles, keeping up with the speed of advancements in technology.
- Enables skills assessments and gap analysis, career mapping, comprehensive job and course opportunity assessments, and connections to careers and learn and earn opportunities through Registered Apprenticeships.

Our Panelists

Moderator - Mike Russo – President and CEO, NIIT

Employers

- Clayton Nagel Sr. Manger/Deputy Director Technical Training, GlobalFoundries (contract chip maker / semiconductor foundry) Clayton.Nagel@globalfoundries.com
- M. Clara Neri-Mejia, PMP Manager, Program Manager Global Manufacturing Training Institute, Applied Materials (semiconductor equipment ("Tol") provider to semiconductor companies) Clara_Neri@amat.com
- Matt Grattan Workforce Development Manager, PlugPower (hydrogen power generation)
 MGrattan@plugpower.com

Community Colleges

- Dr. Hector Rodriguez Dean of STEM, Dean of Science, Technology, Engineering and Math, Hudson Valley Community College - h.rodriguez@hvcc.edu
- Timothy Thomas AVP for Learning and Academic Affairs, Mohawk Valley Community College TThomas@mvcc.edu

The NIIT

Robert Weinman – Director of Workforce Innovation, NIIT (SME on National Talent Hub, Competency Based Learning; semiconductor / industry training) - Rweinman @niit-usa.org