



Industry Intermediary

National Institute for Innovation and Technology (NIIT)

Industry

Strategic Industry Supply Chains and Semiconductor/Nanotechnology-Related Industries

Approved Occupations

Industrial Manufacturing and Electro-Mechanical/Mechatronics Technician, Quality Assurance Auditor, Nanotechnology Engineering Technician, Composite Technician, Mechanical Engineering Technician.

Target Registered Apprentice Populations

Women, People of Color, Veterans (and their families), Justice-Involved, Low-Income, Underemployed, Unemployed, and First-Generation Tech Workers.

Project Overview

Growing Apprenticeships in Nanotechnology and Semiconductors (GAINS) is an NIIT program focused on attracting, training, and retaining talent and creating access to Registered Apprenticeship (RA) programs for underrepresented populations, returning service members and students throughout the education system. NIIT and its partners rapidly launch RAs for in-demand occupations across Advanced Manufacturing with a focus on semiconductors and nanotechnology related industries. Through comprehensive industry engagement, NIIT works to identify and address risks to strategic industry sectors using innovative solutions. Through GAINS, NIIT works with stakeholders to determine workforce requirements and establish regional talent development hubs that leverage a skills-based education pathway that lead to RAs to expand access to careers.

Types of Services or Technical Assistance (TA) Provided

- Comprehensive regional mapping, outreach, and engagement strategy development
- Program marketing and strategic engagement that leverages industry connections and expertise
- Support for the design, development, and delivery of RA programs
- Assistance identifying job requirements, skill assessments, training curriculum alignment, program development and tracking, and improving RAPs through the NIIT [National Talent Hub](#)
- Sponsor, training provider, and individual account manager for the NIIT National Talent Hub

Key Partners

- Micro-Nano Technology Education Center
- National Assoc. of State Workforce Agencies
- Semiconductor Industry Association
- Strata TECH Education Group
- ToolingU SME

Contact Info

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