

## Grant Project Descriptions

North Carolina State University, Raleigh, NC

**Organization Type:** Institution of Higher Education

**Project Name:** *Artificial Intelligence Academy (AIA): North Carolina's Apprenticeships for Innovation*

**Award Amount:** \$5,999,799

**Target H-1B Industry Sector(s):** IT and IT Related Industries

**Target H-1B Occupations:** AI: Research Scientist, Programmer Analyst, Senior IT Programmer Analyst, IT Business Analyst, Senior Business Analyst, Data Scientist, Software Engineer (Machine Learning), Machine Learning Engineer, Machine Learning Specialist, Machine Learning Scientist, Data Architect, Financial Data Architect, Data Architect Manager, Data Analyst, Big Data Architect, Data Modeler, Software Analyst, Software Developer, Computer Programmer, Computer and Information Research Scientist, Business Intelligence Developer

**Credential(s) Awarded:** Two credential levels (Level 1: Basic A.I.; Level 2: Advanced A.I.). DOL Apprenticeship Certificates , Certified Software Business Analyst, Certifies Associate Business Analyst, IQBBA Business Analyst Certification, Certified Software Analyst, Certified Data Scientist, Big Data Foundation Certification, Red Hat Certified Architect, Specialist- Data Scientist, Advanced Analytics Version 1.0

**New or Existing Apprenticeship Program:** New

**Cybersecurity and AI:** AI

**Summary of Apprenticeship Program Activities:** North Carolina State University (NCSU) was awarded \$5,999,799 for the *Artificial Intelligence Academy (AIA): North Carolina's Apprenticeships for Innovation* program, which will establish a research- and best-practice-based A.I. apprenticeship program; recruit and prepare participants through coursework and OTJ training programs implemented with industry partners, and grow the diversity of the A.I. workforce. The Apprenticeship Partnership will engage nine IT companies such as include Batelle, IBM, Pentair, and Citrix among others, plus additional industry associations, government entities and non-profits in training 5,000 apprentices in 21 Artificial Intelligence (AI) occupations. The program will develop new apprenticeships that include on-the-job training for apprentices who will complete Level 1: Basic Artificial Intelligence and/or Level 2: Advanced Artificial Intelligence Certificates offered through the Friday Institute at NCSU and Purdue Global. Each certificate program includes two 10-week courses focused on important content knowledge and skills necessary for working in the A.I. career tracks, which can each be completed in as little as 10 weeks or as long as 20 weeks. Apprentices are paid an hourly salary equivalent to the mean for the entry level position associated with the level of certification the individual is pursuing, with the salary and tuition for coursework paid by the industry employer that will host the apprentice. Program participants will come from the state of North Carolina and others from across the U.S. who have completed secondary or post-secondary IT educational programs or have work experience in IT.

**Geographic Scope:** National **Service Area:** U.S. **Opportunity Zone:** No

**Proposed Number of Apprentices Served:** 5,000

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**Target Population:** Underemployed, unemployed, Veterans, military spouses, transitioning service members, incumbent workers, and underrepresented populations in IT apprenticeships (women, people of color, and individuals with disabilities)

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