

Overview of the Scaling Apprenticeship through Sector-Based Strategies Grant Program and Project Summaries

The U.S. Department of Labor Employment and Training Administration (ETA) awarded approximately \$184 million in grants to 23 grantees for the Scaling Apprenticeship through Sector-Based Strategies grant program in June 2019. The primary goal of this grant program is to accelerate the expansion of apprenticeships to new industry sectors reliant on H-1B visas, such as information technology (IT) and IT-related industries, advanced manufacturing, and health care. In addition, the grant program will increase the level of apprenticeship activity among employers within these industry sectors that have not traditionally implemented apprenticeship programs, particularly small- and medium-sized businesses.

Scaling Apprenticeship will promote the large-scale expansion of apprenticeships across the nation by supporting the training of thousands of apprentices in new or expanded programs and by assisting partners in their efforts to create and scale the new or expanded apprenticeship programs. This grant program will also increase apprenticeship opportunities for all Americans, particularly veterans, military spouses and those individuals currently underrepresented in existing apprenticeship programs.

Program Activities: This grant program will expand apprenticeship opportunities within H-1B industry sectors, particularly those that have not deployed apprenticeships on a large scale previously, and increase the number and types of workers participating as apprentices. To achieve these goals, projects will undertake activities within each of the following categories:

- Deploying apprenticeship training. Grant funds will be used primarily to support the training of thousands of apprentices in new or expanded programs. Training and training-related activities will include the academic and work-based training itself, as well as supportive services, such as childcare and transportation, designed to assist apprentices to participate and remain in an apprenticeship program.
- Taking apprenticeships to scale. Assisting partners in their efforts to create and scale the new or expanded apprenticeship programs is another critical component of the work under this grant program. Projects will establish new apprenticeship programs, create the training infrastructure/network necessary to deploy these programs, expand existing apprenticeships, and promote all grant-funded apprenticeship programs on a national scale.

Grants totaling \$183,883,271 were awarded to 23 partnerships in local and state service areas across the country, and will ultimately expand to reach a national scale. Grant summaries for these projects are included below:

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SCALING APPRENTICESHIP THROUGH SECTOR-BASED STRATEGIES	
ABSTRACT – ALAMAP Project	

Lead Applicant Organization's Name:	Alabama Community College System (ACCS)
Lead Applicant Entity Type:	System of Higher Education
Lead Applicant City/State:	Montgomery, Alabama

APPRENTICESHIP PARTNERSHIP

Required Partners: This includes at least one high-level representative from private industry that represents the sector or industry in which the applicant is proposing to take apprenticeships to scale. This required private sector partner must consist of: <ul style="list-style-type: none"> One or more national industry/trade associations; or A consortium of at least five businesses representing an industry sector. 		
<ul style="list-style-type: none"> IF one or more national industry/trade associations 		
Name of the National industry/trade association(s):	Industry Sector	
The Manufacturing Institute (MI) at the National Association of Manufacturers	Advanced Manufacturing	
<ul style="list-style-type: none"> OR IF a consortium of at least five businesses representing an industry sector 		
Organization Names of Required Partners:	Entity Type	Industry Sector
Optional Partners:		
Organization Names of Optional Partners:	Entity Type	Industry Sector
Business Council of Alabama	Business Assoc.	All
Economic Development Partnership of Alabama	Econ. Dev. Assoc.	All
Economic Development Association of Alabama	Econ. Dev. Assoc.	All
Proposed Service Areas: (where apprentices will initially be trained)	Entire state of Alabama	
Total Funding Requested:	\$12,000,000	
Total Matched Funds:	\$4,300,000	
Project Title/Name: Alabama FAME Project		
Summary of Program Activities and List of Credentials to be Awarded:	Program Activities: The ALAMAP Project will narrow the skills gap and strengthen the workforce for middle- and high-skilled jobs in advanced manufacturing by expanding industry-recognized apprenticeships in advanced manufacturing companies of all types and sizes. The Project will specifically develop and implement Quick-Start Pre-apprenticeships training Certified Production Technicians and Certified Logistics Technicians, Short-Term Alabama Advanced Manufacturing Apprenticeship Programs (ALAMAPs) training technicians in an one of several high-wage, high-demand occupations supporting advanced manufacturing, and Comprehensive, 2-Year FAME Apprenticeships that result in an associate's degree,	

	<p>additional industry recognized credentials and employment as a multi-skilled Advanced Manufacturing Technician, Process Technician or Electrical & Instrumentation Technician. The project will modify the FAME AMT program to create a modular advanced manufacturing apprenticeship curriculum and training structure that can be adapted to a more diverse set of advanced manufacturing industries. Apprenticeships developed and expanded in Alabama will be nationally scaled through partnership with the National Association of Manufacturers (NAM) affiliate, the Manufacturing Institute (MI)</p> <p>Credentials to be Awarded: AAS degree, college certificate, FAME certificate, OSHA 10, MSSC CPT and CLT; any of a number of other occupationally-specific national certifications including: ISA Certified Automation Professional or Certified Control Systems Technician, AWS Certified Welder, NIMS Entry Level Machinist, ASE Certified Mechanic or Diesel Mechanic, CompTIA Certified IT Professional, CISCO Certified Network Associate, NOCTI Technical Drafter, & NCCER</p>
Targeted Populations(s) to be Served:	<p>Individuals over age 16 who are not enrolled in a local education agency and who are:</p> <ol style="list-style-type: none"> (1) Unemployed, seeking to enter or re-enter the workforce (2) Underemployed, seeking fulltime or higher skilled work (3) Incumbent workers seeking to remain employed or advance in their career <p>With preference for participation and services given to underrepresented populations in apprenticeship, including</p> <ol style="list-style-type: none"> (1) veterans, military spouses, transitioning service members (2) women, people of color, and ex-offenders
Targeted H-1B Industry Sector(s)	Advanced Manufacturing
Targeted Occupations within an H-1B industry sector:	Advanced Manufacturing Technician, Process Technician, Electrical & Instrumentation Technician, Welder, Electrician, Diesel Mechanic, Certified Logistics Technician, Certified Production Technician, Drafting and Design Technician, Engineering Technician, Automotive Service Technician, Machinist, Tool and Die Technician, IT Support Specialist, Network Administrator, Diesel Mechanic, Auto Mechanic
Public Contact Information:	<p>Name, Title: Mr. Jeff Lynn Vice Chancellor, Workforce & Economic Dev.</p> <p>Address: 135 South Union Street Montgomery, AL 36104</p> <p>Phone Number: 334-293-4709</p> <p>Email Address: jeff.lynn@accs.edu</p>

Abstract: NJ HealthWorks

- 1. Lead Applicant Name:** Bergen Community College, lead applicant, representing a consortium of 15 public community colleges throughout New Jersey consisting of Atlantic Cape, Brookdale, Rowan College at Burlington County, Camden, Rowan College at Gloucester County, Hudson, Mercer, Middlesex, County College of Morris, Ocean, Passaic, and Union.
- 2. Lead Applicant Entity Type:** Hispanic Serving Public/State Controlled IHE.
- 3. Lead Applicant City/State:** Paramus / New Jersey
- 4. Required Partner Names and Entity Type:** **Health Care Employers -RWJBarnabas Health System** (regional Healthcare Provider Employer); **CVS Health** (national Healthcare Employer); **Advanced Subacute Rehabilitation Center** (regional Healthcare Employer); **Christian Health Care Center** (regional Healthcare Employer); **East Orange Medical Practice** (local Healthcare Employer); **Roosevelt Care Center at Edison** (local Healthcare Employer); and **Trinitas Regional Medical Center** (regional Healthcare Employer). **Health Care Industry Association - Health Care Association of New Jersey** (association representing long term care facilities, affiliate of the national American Health Care Association).
- 5. Optional Partner Names and entity types.** **District Council Local 1199J** (health care union, AFSCME affiliate); **NJ State Department of Labor and Workforce Development** (government agency); **NJ Workforce Development Boards** (quasi-government entities representing employers, training providers, and labor unions); **Garden State Employment and Training Association** (non-profit entity comprised of NJ WDB Directors and One-Stop Center directors); and **New Jersey Council of County Colleges** (Not-for-profit representative for all NJ Community Colleges).
- 6. Proposed Service Area where apprentices will be initially trained:** All 21 Counties in the State of New Jersey, including all cities and municipalities.

7. Total Funding Requested: \$12,000,000.00.

8. Total Matched Funds: \$4,200,000.00.

9. Project Title/Name: NJ HealthWorks

10. Summary of Apprenticeship Program Activities and List of Credentials to be Awarded:

Consortium and employers partner to serve 5,000 healthcare apprentices. Partners provide pre-apprenticeship training/support, related training and instruction, and on-the-job training.

Employers will hire 3,500 apprentices, 3,000 will complete apprenticeships, of whom 1,350 will have been unemployed or underemployed, and 1,540 incumbent workers will complete apprenticeships and advance in careers. Average hourly wage upon completion is projected to be \$18.21. NJ HealthWorks will expand nine existing and create 5 new apprenticeship programs. 14 certifications/credentials will be awarded for 14 respective H-1B occupations noted below.

11. Populations to be Served: Displaced H-1B workers, unemployed, underemployed, and incumbent workers with low pay, veterans and spouses, and underrepresented populations.

12. Targeted H-1B Industry Sector: Health Care.

13. Targeted occupations(s) within H-1B industry sector: LPN/Registered Nurse, Radiology Technician, Respiratory Therapist, Pharmacy Technician, Certified Nursing Assistant, Central Sterile Tech, Community Health Worker, Dental Assistant, Medical Assistant, Medical Billing and Coding, Home Health Aide, EMT/Paramedic, Phlebotomy, EKG, Patient Care Technician, Sonography, Medical Lab Technician, and Certified Alcohol and Drug Counselor.

14. Public Contact Information: Dr. Michael D. Redmond, President, Bergen Community College, 400 Paramus Road, Paramus, New Jersey 07652-1595. Telephone: (201) 447-7237.

Email: mredmond@bergen.edu.

Abstract

Lead Applicant Organization's Name: Colorado Department of Higher Education

Lead Applicant Entity Type: Single state higher educational board

Lead Applicant City/State: Denver, Colorado

Required Partners:		
Name of the national industry/trade association(s):	Industry Sector	
National Healthcareer Association (NHA)	Healthcare	
Consortium		
Organization Names of Required Partners:	Entity Type	Industry Sector
Kaiser Permanente	Private sector business	Healthcare
Centura Health	Private sector business	Healthcare
HealthOne/HCA	Private sector business	Healthcare
UCHealth	Private sector business	Healthcare
Colorado Rural Health Center	Private sector business	Healthcare

Optional Partners:		
Organization Names of Optional Partners:	Entity Type	Industry Sector
Colorado Rural Health Center	Industry Association	Healthcare
Greater Metro Denver Healthcare Sector Partnership	Industry Association	Healthcare
Colorado Center for Nursing Excellence	Industry Association	Healthcare
The Colorado Workforce Development Council	Government agency	N/A
Colorado Department of Labor and Employment	Government agency	N/A
Denver Metro Chamber of Commerce	Government agency	N/A
Colorado Community College System	State system of higher education	N/A
Aims Community College	Institution of Higher Education (IHE)	N/A
Arapahoe Community College	IHE	N/A
Community College of Aurora	IHE	N/A
Emily Griffith Technical College	IHE	N/A
Lamar Community College	IHE	N/A
Pikes Peak Community College	IHE	N/A
Pueblo Community College	IHE	N/A
Red Rocks Community College	IHE	N/A
Trinidad State Junior College	IHE	N/A
Colorado State University	IHE	N/A

Proposed Service Areas (where apprentices will initially be trained): Colorado

Total Funding Requested: \$12,000,000; **Total Matched Funds:** \$4,200,000

Project Title/Name: Colorado Healthcare Experiential Learning Pathways to Success

Summary of Program Activities and List of Credentials to be Awarded: Medical Laboratory Technology certificate (cert), Medical Laboratory Technician cert., Radiologic Sciences cert., Radiologic technologies cert., CPT certification by NHA, Sonography cert., Health Information Technologies cert., Medical Office Technology cert., CBCS certification by NHA, Associate of Applied Science Degree in Nursing, Practical Nursing cert., Nurse Aide cert., Physical Therapist Assistant cert., Massage Therapy cert., CPhT certification by NHA after passing National Pharmacy Technician exam, CCMA exam, NHA certification, MA cert. and AAS degree in MA and PA cert. after passing the PA National Certifying Examination (PANCE)

Targeted Population(s) to be Served: Underemployed, unemployed and incumbent workers

Targeted H-1B Industry Sector(s): Healthcare

Targeted Occupations within an H-1B Industry Sector: Medical and Clinical Laboratory Technologists, Medical and Clinical Laboratory Technicians, Radiologic Technologists, Radiologic Technicians, Phlebotomists, Medical Equipment Preparers (Sterile Processing Tech), Diagnostic Medical Sonographers (Ultrasound Tech), Health Information Technicians, Medical Transcriptionists, Health Services Managers, Medical Billers, Medical Coders, Nurse Practitioners, Registered Nurses, Licensed Practical and Licensed Vocational Nurses, Nursing Assistants, Home Health Aides, Physical Therapist Assistants, Physical Therapy Aid, Massage Therapists, Pharmacy Technicians, Medical Assistants and Physician Assistants.

Public Contact Information: Amanda DeLaRosa, Chief of Staff; 1600 Broadway, Ste. 2200, Denver, CO 80202; 303-862-3018; Amanda.DeLaRosa@dhe.state.co.us

If applying as an IHE, provide the names of IHE consortium members: Not applicable

SCALING APPRENTICESHIP THROUGH SECTOR-BASED STRATEGIES	
Lead Applicant Name:	Columbus State Community College
Lead Applicant Entity Type:	Public Institution of Higher Education
Lead Applicant City/State:	Columbus, Ohio

APPRENTICESHIP PARTNERSHIP

CONSORTIUM OF BUSINESSES REPRESENTING INDUSTRY SECTOR		
Organization Names of Required Partners:	Entity Type	Industry Sector
Accenture	Private Sector Business	IT/IT-Related
AEP	Private Sector Business	IT/IT-Related
BILT Leadership Team; National CTC	(8) Private and Nonprofit Sector Businesses	IT/IT-Related
DSW	Private Sector Business	IT/IT-Related
Halcyon	Private Sector Business	IT/IT-Related
Huntington Bancshares	Private Sector Business	IT/IT-Related
J W Logistics	Private Sector Business	IT/IT-Related
JPMorgan Chase	Private Sector Business	IT/IT-Related
Nationwide	Private Sector Business	IT/IT-Related
OhioHealth	Nonprofit Sector Business	IT/IT-Related
State Auto	Private Sector Business	IT/IT-Related
OPTIONAL PARTNERS		
Organization Names of Optional Partners:	Entity Type	Industry Sector
Per Scholas	Community Organization	Wrap-around services
United Way	Community Organization	Wrap-around services
Allen Fairview and Frisco Chambers of Commerce	Economic Development	IT/IT-Related
Columbus 2020; Frisco Economic Development Corp.; Rev1 Ventures	Economic Development	IT/IT-Related
National Convergence Technology Center	Non-profit Service Provider	IT/IT-Related
Florida State at Jacksonville	Public Institution of Higher Ed.	Expansion partner
Ohio Association of Community Colleges	Public Institution of Higher Ed.	Expansion partner
SBDCs at Columbus State and Collin College	Small Business Development Centers	IT/IT-Related
Veterans Services at Columbus State and Collin College	Veteran's Services Community Organization	Wrap-around services
Workforce Development Board of Central Ohio	Workforce Intermediary	IT/IT-Related

Proposed Service Areas: (where apprentices will initially be trained)	(1) Central Ohio including Delaware, Fairfield, Franklin, Knox, Licking, Logan, Madison, Marion, Morrow, Pickaway, and Union Counties. (2) Dallas-Fort Worth metroplex, including Collin, Dallas, Denton, and Tarrant Counties.
Total Funding Request:	\$3,788,691
Total Matched Funds:	\$1,400,682
Project Title/Name:	Flexible Learning Expressway for Technology (FLEXTech) Apprenticeship Consortium
Summary of Program Activities and List of Credentials to be Awarded:	The project will <i>deploy apprenticeship training</i> by disseminating Columbus State Community College's successful Work Study model, with regional adaptations based on industry need. Two program tracks will be available: an Emerging Program and an Incumbent Program. The project will <i>take apprenticeship to scale</i> , through partnering with national-level employers, and recruiting new IHE expansion partners. Participant <i>support services</i> will be provided in partnership with local community service providers. Awarded credentials include CompTIA Security+, A+, Linux+, or Network +, CCNA Cisco Certification, and AWS Cloud Fundamentals, VMWare, Google IT, and others. Postsecondary degrees and certificates in IT areas are embedded into the Emerging Program track and may apply to the Incumbent participants.
Targeted Population(s) to be Served:	Unemployed and underemployed individuals; veterans, military spouses, transitioning service, women, and people of color
Targeted H-1B Industry Sector(s):	IT and IT-Related Industries
Targeted Occupations:	Computer Systems Analysts (15-1121); Information Security Analysts (15-1122); Software Developers, Applications (15-1132); Computer Occupations, All Other (15-1199); Software Developers, Systems Software (15-1133); Network and Computer Systems Administrators (15-1142); Database Administrators (15-1141); Computer and Information Systems Managers (11-3021); Computer Network Support Specialists (15-1152); Computer User Support Specialists (15-1151) <i>New and Emerging IT Job Titles</i>
Public Contact Information:	Name, Title: Shane Kirby, Director, Grants Office, Columbus State Community College Address: 550 East Spring St.; Columbus, OH 43215 Phone: 614-287-2095 Email: skirby2@csc.edu
Names of the IHE Consortium Members:	Columbus State Community College, Columbus, OH Collin College, McKinney, TX

Scaling Apprenticeship Through Sector-Based Strategies Project Abstract		
Lead Applicant Organization's Name:	The Community College of Baltimore County	
Lead Applicant Entity Type:	Community College; Governmental Entity	
Lead Applicant City/State:	Baltimore, Maryland	
Name of national industry/trade association(s)	Industry Sector	
Health Career Advancement Program (H-CAP)	Healthcare	
1199SEIU Training and Upgrading Fund	Healthcare	
Organization Names of Business Partners, Entity Type and Industry Sector: Johns Hopkins Medicine, a healthcare business entity in the healthcare industry sector, and its subsidiaries: The Johns Hopkins Hospital; Johns Hopkins Bayview Medical Center; Johns Hopkins Community Physicians; Johns Hopkins Home Care Group; Johns Hopkins Healthcare; Johns Hopkins Medicine International; Johns Hopkins University School of Medicine; Johns Hopkins Children's Hospital; Howard County General Hospital; Sibley Memorial Hospital; and Suburban Hospital.		
Organization Names of Optional Partners	Entity Type	Industry Sector
Baltimore Alliance for Careers in Healthcare (BACH)	Nonprofit	Healthcare
Baltimore County Department of Economic and Workforce Development (BCDEWD)	Workforce development	Governmental
Proposed Service Areas: Baltimore Metropolitan Region (Baltimore City, Baltimore County, Anne Arundel County, Howard County, Harford County, Carroll County)		
Total Funding Requested:	\$1,995,645	
Total Matched Funds:	\$698,476	
Project Title/Name: Healthcare Apprenticeships: A Model for Maryland and the Nation		
Summary of Program Activities and List of Credentials to be Awarded: The Community College of Baltimore County, Anne Arundel Community College, Johns Hopkins Medicine and its 11 healthcare affiliate businesses, BACH, BCDEWD, 1199 SEIU Training and Upgrading		

Fund, and the Health Career Advancement Program (H-CAP) will develop three industry-recognized pre-apprenticeship and apprenticeship models in healthcare to create a pipeline for entry level employment for central service technicians and medical front office, while simultaneously upskilling existing entry-level staff and new hires to become medical assistants through a new state-registered apprenticeship. Partners have committed to recruit students, offer interviews for pre-apprentice graduates, maintain employment and pay for incumbent workers, ensure mentorship and on-the-job training for incumbent workers, and enter a seat-sharing arrangement to meet the minimum amount of apprentice served as required by DOL. Throughout the project the consortium, using H-CAP's network of 900 employers, will promote the model for businesses and community colleges around the nation, distributing job descriptions, employer input, sample curriculum, and apprenticeship registration materials that will make it easier for future apprenticeship sponsors to implement these models in their region.

List of Credentials:

Certified Registered Central Service Technician (CRCST); Certified Medical Administrative Assistant (CMAA) ; Certified Medical Assistant (CMA)

Target Population(s) to be Served: Unemployed/Underemployed; Veterans; Underrepresented Populations; Incumbent Workers and New Hires.

Targeted H-1B Industry Sector(s): Healthcare

Targeted Occupations within an H-1B Industry sector: Central Services Technician, Medical Front Office, Medical Assistant

Public Contact Information Nancy Smith, Director of Grants Development, 7201 Rossville Boulevard, Baltimore, Maryland 21237 (443) 840-3561 nsmith4@ccbcmd.edu

Consortium Institutions of Higher Education

Anne Arundel Community College

ATTACHMENT 1. ABSTRACT

Lead Applicant & Location: Connecticut State Colleges & Universities; Hartford, Connecticut

Lead Applicant Entity Type: State system of higher education

Required Partners: A consortium of at least five businesses representing the Advanced Manufacturing industry sector: Lockheed Martin, General Dynamics Electric Boat, IBM, Sound Manufacturing, and Pratt & Whitney

Optional Partners: Five institutions of higher education (Goodwin College, Three Rivers Community College (CC), Quinebaug Valley CC, Asnuntuck CC, Westerly Education Center); Four industry associations (California Manufacturers & Technology Association, Smaller Manufacturers Association, Aerospace Components Manufacturers, Eastern Advanced Manufacturing Alliance); Two workforce development boards (Eastern Connecticut Workforce Investment Board (WIB), Northwest Regional WIB); Seven other partners (Connecticut Department of Labor, New England Board of Higher Education, Connecticut Center for Advanced Technology, Tooling U-SME, National Institute for Metalworking Skills, Achieving the Dream, Connecticut College of Technology)

Proposed Initial Service Areas: Connecticut, Alabama, Arizona, California, Colorado, Florida, Georgia, North Carolina, New Jersey, New York, Rhode Island, Texas, and West Virginia

Funding Requested: \$8,000,000

Matched Funds: \$2,800,000

Project Name: National Advanced Manufacturing Apprenticeship Project (NAMAP)

Program Overview: The NAMAP will build and scale demand-driven pre-apprenticeship, registered apprenticeship, and Industry-Recognized Apprenticeship (IRAP) programs that lead directly to *currently-available* jobs or advancement opportunities in advanced manufacturing. NAMAP “anchor” companies employ over 200,000 workers in all 50 states. The NAMAP

partnership offers a viable platform for scaling apprenticeships nationwide. The NAMAP will expand six proven, existing apprenticeship program models (that train for scores of occupations) nationally, and will build on the principles that anchor employers use to operate effective programs (e.g., demand-driven, competency-based) to establish at least 10 new apprenticeship programs.

During the four-year project period, the NAMAP will train 3,500 people (3,000 un- and under-employed; 500 incumbent workers); award 2,950 industry-recognized credentials; and help 2,710 un- and under-employed participants to enter employment at an average hourly wage of \$17.59.

Credentials to be Awarded: Registered apprentices will earn a state and/or federal Certificate of Apprenticeship; those completing IRAP will receive an IRAP completion certificate issued by a third-party IRAP certifier; pre-apprentices will earn certificates from a registered apprenticeship program administrator; and those completing RTI may receive an IHE certificate of completion.

Target Populations: Unemployed, underemployed & incumbent workers, particularly veterans, military spouses, transitioning service members, women, people of color, and ex-offenders

Target Sector: Advanced Manufacturing

Target Occupations: The NAMAP will train apprentices for entry and advancement in scores of manufacturing and cybersecurity-relevant occupations (manufacturers rely on IT systems to vertically integrate product designs, manufacturing processes, cost structures, supplier networks, and proprietary information) and supporting occupations within advanced manufacturing facilities. Target occupations include Electrical & Electronic Engineering Technicians, Aerospace Engineers & Technicians, Manufacturing Production Technicians, Computer Systems Analysts, Information Security Analysts, Machinists, and Sheet Metal Workers.

Public Contact: Michael Kozlowski, CSCU Director of Advanced Manufacturing & Strategic Initiatives; 61 Woodland Street, Hartford, CT 06105; 860.719.2136; mkozlowski@commnet.edu.

ABSTRACT**SCALING APPRENTICESHIP THROUGH SECTOR-BASED STRATEGIES**

Lead Applicant Organization's Name:	County College of Morris
Lead Applicant Entity Type:	Institute of Higher Ed representing consortium
Lead Applicant City/State:	Randolph, NJ

APPRENTICESHIP PARTNERSHIP**REQUIRED PARTNERS**

Name of the national industry/trade association(s):	Industry Sector
German American Chambers of Commerce	Advanced Manufacturing

OPTIONAL PARTNERS

Organization Names of Optional Partners:	Entity Type	Industry Sector
Workforce Development Board, County of Middlesex	Workforce Intermediary	All
Central Jersey Partners Regional Workforce Board Consortium	Workforce Intermediary	All
Morris-Sussex-Warren Workforce Development Board	Workforce Intermediary	All
New Jersey Institute of Technology	IHE	Advanced Manufacturing
Middlesex County Office of Veterans Services	Veterans and military referrals	

PROGRAM DESCRIPTION

Proposed Service Areas: (where apprentices will initially be trained)	State of New Jersey
Total Funding Requested:	\$3,999,824
Total Matched Funds:	\$1,399,938
Project Title/Name:	<i>CareerAdvance USA</i>
Summary of Program Activities:	Start up and model development (hiring orienting partners; website, curriculum, and instructional strategy design and pilot; database creation and assessment protocol design); program implementation (recruit,

	screen, enroll and assess applicants; deliver training to at least 1,600 participants; track participants; quarterly reporting and use of data for program improvement; and support apprentices and employer partners); and scale up program (outreach through GACC and through college, workforce board, and employer networks; web-based and onsite resource sharing; train-the-trainer workshops; and multi-faceted support for new programs).
List of Credentials to be Awarded:	NIMS Level I Machining certification MSSC Production Technology cert. Siemens Mechatronic Systems Cert. College Degrees and Certificates ACE CREDIT® testing for articulation to college credit
Targeted Population(s) to be Served:	At least 1,600 unemployed, underemployed (including incumbent workers), transitioning military, veterans, women, and people of color.
Targeted H-1B Industry Sector(s):	Manufacturing
Targeted Occupations within an H-1B industry sector:	Advanced Manufacturing
Public Contact Information:	Patrick Enright, Associate VP of Workforce County College of Morris 214 Center Grove Road Randolph, NJ 07869 973-328-5701 penright@ccm.edu
If applying as an IHE representing a consortium of IHEs, provide the names of IHE consortium members.	The consortium members are: County College of Morris Bergen Community College Hudson County College Middlesex County College Raritan Valley Community College Camden County College Mercer County Community College Rowan College at Gloucester

Lead Applicant: Dallas County Community College District

Entity Type: Institute of Higher Education/Community College System

Lead Applicant City/State: Mesquite, TX

Required Partners: National Industry Trade Association

American Hospital Association	National Association	Healthcare
<u>Business Name</u>	<u>Entity Type</u>	<u>Industry Sector</u>
Acadian Ambulance Services	Ambulance Service	Healthcare
Capital Senior Living	Senior/Assist Care	Healthcare
Medical City Healthcare	Hospital	Healthcare
JPS Health Network	Hospital	Healthcare
Methodist Health System	Hospital	Healthcare
Texas Health Resources	Hospital	Healthcare
Children's Health	Hospital	Healthcare
UT Southwestern Medical Center	Hospital	Healthcare
Parkland Health and Hospital System	Hospital	Healthcare
<u>Optional Partners:</u>		
DFW Hospital Council	Industry Association	Healthcare
Serve West Dallas	Social Services	Non-Profit
Scalable Solutions	Training Org/SME	Workforce
Npower	Training Org	Workforce
Strategic Development Solutions	Apprentice SME	Workforce
Core MD	Training Org/SME	Healthcare
Work Ready U	DCCCD/WIB	Workforce

NCCT	Certifying Body	Workforce
Texas Workforce Commission	State Government	Workforce
Workforce Solutions Greater Dallas	Workforce Board	Workforce

Proposed Service Areas: Dallas Fort Worth MSA, State of Texas, United States

Total Funding Requested: \$12,000,000

Total Matched Funds: \$ 4,200,000

Project Title/Name: You're Hired!

Summary of Program Activities and List of Credentials to be Awarded:

This federal investment will be used for the deployment and scale of apprenticeship for the healthcare industry. It will create new apprenticeships primarily for major hospital systems and expand apprenticeship nationally in healthcare. Working with a consortium of regional metropolitan and national industry organizations we will develop and offer industry recognized apprentice program credentials for healthcare occupations that are portable and transferable. Credentials will be in clinical and non-clinical occupations and will meet employer demand, a full list of 55 occupations will be examined for expansion, creation or scale of the 1,200 occupations in the healthcare systems today.

Targeted Populations to be Served: Veterans, Transitioning Military, Eligible Spouses of Active Duty Military, Women, People of Color, Ex-Offenders and all eligible categories will be served.

Targeted H-1B Industry Sector: Healthcare

Targeted Occupations within an H-1B Industry Sector: All (Option 1) Industry Sector

Public Contact: Mark Hays, Vice Chancellor for Workforce & Economic Development

1601 South Lamar Street Dallas, TX 75215 214-378-1821 mhays@dcccd.edu

SCALING APPRENTICESHIP THROUGH SECTOR- BASED STRATEGIES	
Lead Applicant Organization's Name:	Florida International University
Lead Applicant Entity Type:	Institution of Higher Education
Lead Applicant City/State:	Miami, FL

APPRENTICESHIP PARTNERSHIP

Required Partners		
Name of the national industry/trade association(s):		Industry Sector
The Society for Human Resource Management Foundation (SHRM Foundation)		Business
Organization Names of Required Partners:	Entity Type	Industry Sector
Cylance	Private Sector Company	IT - Cybersecurity
ForeScout Technologies	Private Sector Company	IT - Cybersecurity
McAfee	Private Sector Company	IT - Cybersecurity
Urban Serving Universities	Consortium of Higher Education Institutions	Education
Organization Names of Optional Partners		
Miami Beacon Council	Economic Development Organization	Business

Proposed Service Areas: (where apprentices will initially be trained)	Miami-Dade, Broward, Palm Beach tri-county area
Total Funding Requested:	\$1,999,961
Total Matched Funds:	\$699,986
Project Title/Name:	Cyber-CAP: A Novel Cybersecurity Apprenticeship Program for IT-Related Industries
Summary of Program Activities and List of Credentials to be Awarded:	<ul style="list-style-type: none"> • 3 semesters of related technical instruction (144 hours) and 2000 hours of on the job training • Eligibility to take CompTIA certification exams • Digital Badges issued by FIU throughout the apprenticeship program • FIU Certificate of Completion • Opportunity to have apprenticeship experience converted to college credits through prior learning assessment
Targeted Population(s) to be Served:	Unemployed, Underemployed, and Incumbent Workers
Targeted H- 1B Industry Sector(s):	IT and IT-Related Industries

Targeted Occupations within an H- 1B industry sector:	Information Security Analyst; Cybersecurity Specialist; Cybersecurity Analyst; Vulnerability Analyst; Threat Intelligence Analyst
Public Contact Information:	<p>Name, Title: Elizabeth M. Bejar, PhD Senior Vice President Academic and Student Affairs</p> <p>Address: Florida International University 11200 SW 8 Street, PC 526 Miami, FL 33199</p> <p>Phone Number: 305.348.2151</p> <p>Email Address: bejare@fiu.edu</p>
If applying as an IHE representing a consortium of IHEs, provide the names of IHE consortium members	FIU has partnered with the central office for the Coalition of Urban Serving Universities (USU), which represents a consortium of 37 universities nationwide.

Required Attachment A: Project Abstract

SCALING APPRENTICESHIP THROUGH SECTOR-BASED STRATEGIES	
Lead Applicant Organization's Name:	Illinois Community College Board (ICCB)
Lead Applicant Entity Type:	State System of Higher Education (community college system office)
Lead Applicant City/State:	Springfield, Illinois

APPRENTICESHIP PARTNERSHIP

Required Partners	
Name of national industry/trade association:	Industry Sector
CompTIA	Information Technology

Optional Partners:		
Organization Names of Optional Partners	Entity Type	Industry Sector
Jobs for the Future (JFF)	National Non-Profit	Workforce/Apprenticeships
Illinois Department of Employment Security (IDES)	State Agency	State Agency
Department of Commerce & Economic Opportunity (DCEO)	State Agency	State Agency
Illinois Workforce Innovation Board (IWIB)	State Agency	State Agency
Illinois Department of Human Services (IDHS)	State Agency	State Agency
Illinois Department of Veteran's Affairs (IDVA)	State Agency	State Agency
Young Invincibles	Non-Profit	Supportive Services
One Million Degrees	Non-Profit	Supportive Services
Women Employed	Non-Profit	Supportive Services
Safer Foundation	Non-Profit	Supportive Services

Proposed Service Areas: (where apprentices will initially be trained)	
Total Funding Requested:	\$3,999,649
Total Matched Funds:	\$1,399,895
Project Title/Name:	Customized Apprenticeship Program – Information Technology (CAP-IT)
Summary of Program Activities and List of Credentials to be Awarded:	Activities: Bridge, Pre-Apprenticeship, Apprenticeship, Integrated Education and Training (IET), Essential Employability Skills Credentials: CompTIA IT Fundamentals, CompTIA A+, CompTIA Server+, CompTIA Network+, CCENT, MCSE, CCNA, OCAJ, Java Programming, C++, CompTIA Security+

Required Attachment A: Project Abstract

Targeted Population (s) to be Served:	<ul style="list-style-type: none"> • 16 +, currently not enrolled in school • Incumbent workers
Targeted H-1B Industry Sector (s):	Information Technology (IT)
Targeted Occupations within an H-1B industry sector:	IT Generalist Programming and Software Development Information (Cyber) Security
Public Contact Information: Illinois Community College Board Jennifer K. Foster Deputy Director for Adult Education and Workforce	Name, Title: Jennifer K. Foster, Deputy for Adult Education and Workforce State Illinois High School Equivalency Administrator Illinois Community College Board Address: 401 E. Capitol Avenue Springfield, IL 62701 Phone Number: 217.785.0171 Email Address: Jennifer.Foster@illinois.gov
IHE Consortium Members	City Colleges of Chicago Oakton Community College Illinois Central College Kishwaukee College College of Lake County Prairie State College Richland Community College Lincoln Land Community College Rend Lake College Parkland Community College

LCCC Abstract - Ohio Manufacturing Workforce Partnership

SCALING APPRENTICESHIP THROUGH SECTOR-BASED STRATEGIES	
Lead Applicant Organization's Name:	Lorain County Community College
Lead Applicant Entity Type:	Institution of higher education representing a consortium.
Lead Applicant City/State:	Elyria, OH

APPRENTICESHIP PARTNERSHIP

Required Partners	
Name of national industry/trade association:	Industry Sector
Manufacturing Institute of the National Association of Manufacturers (MI-NAM)	Advanced Manufacturing
National Institute of Metalworking Skills (NIMS)	Advanced Manufacturing
Ohio Manufacturers' Association (OMA)	Advanced Manufacturing

Optional Partners		
Organization Names of Optional Partners	Entity Type	Industry Sector
American Welding Society (AWS)	Credentialing Organization	Advanced Manufacturing
Jobs for the Future (JFF), Skills Commons, AcademyOne	National Technical Assistance Providers	N/A
Alliance for Working Together, Central Ohio Manufacturing Partnership, ConxusNEO, Dayton Region Manufacturing Workforce Partnership, Foundation for Appalachian Ohio, MAGNET, Mahoning Valley Manufacturers Coalition, Manufacturing Works, Northwest Ohio Manufacturers Alliance, Norwalk Economic Development Corporation, Partners for a Competitive Workforce, West Central Ohio Manufacturing Partnership, Workforce Institute of Lorain County	Manufacturing Sector Partnerships	Advanced Manufacturing
Belmont College, Central Ohio TC, Cincinnati State CTC, Clark State CC, Cleveland State U. Columbus State CC, Cuyahoga CC, Eastern Gateway CC, Edison State CC, Hocking College, Lakeland CC, Lorain County CC, Marion TC, North Central State College, Northwest State CC, Owens CC, Rhodes State College, Rio Grande CC, Shawnee State, Sinclair CC, Southern State CC, Stark State College, Terra State CC, U of Akron, Washington State CC, Zane State College	Institutions of Higher Education	Advanced Manufacturing
JobsOhio, Ohio Assoc. of Community Colleges, Ohio Department of Education, Ohio Department of Higher	State Agencies and System	N/A

LCCC Abstract - Ohio Manufacturing Workforce Partnership

Education, Ohio Department of Job and Family Services, Ohio Manufacturing Extension Partnership, Ohio Manufacturing Institute, Ohio Education Research Center	Partners	
Thyssenkrupp Bilstein, Shepherd Color, MillerCoors, Meyer Tool, Makino, GE Aviation, Nidec Minster, Deceuninck, Honda, Lincoln Electric, Vallourec, First Solar	Anchor Companies	Advanced Manufacturing

Proposed Service Areas: (where apprentices will initially be trained)	Ohio - All
Total Funding Requested:	\$12,000,000
Total Matched Funds:	\$4,200,000
Project Title/Name:	Ohio Manufacturing Workforce Partnership
Summary of Program Activities and List of Credentials to be Awarded:	The OMWP initiative leverages sector partnerships to expand apprenticeships in advanced manufacturing throughout Ohio, with particular focus on industry recognized apprenticeship. Regional sector partnerships are developing and expanding apprenticeship pathways that include: (1) connection to secondary pre-apprenticeship and CTE pathways, (2) Manufacturing Foundations and pre-apprenticeship programming, (3) industry-recognized apprenticeships that incorporate on-the-job training, related technical instruction, and nationally portable industry-recognized credentials, (4) articulation and transfer of postsecondary credit, and (5) articulation to advanced postsecondary degrees. A strategy is included for expanding a subset of apprenticeship models nationwide in partnership with the Manufacturing Institute of the National Association of Manufacturers. The initiative will train 5,000 apprentices over four years.
Targeted Population (s) to be Served:	Out of school youth age 16+ and adults who are un- or under-employed, and incumbent workers. Special emphasis on veterans, women, people of color, and ex-offenders.
Targeted H-1B Industry Sector	Advanced Manufacturing
Targeted Occupations within an H-1B industry sector:	(1) Production, (2) Machining, (3) Industrial Maintenance, and (3) Welding.
Public Contact Information:	Name, Title: Terri Burgess Sandu, Director, Talent and Business Innovation, Lorain County Community College Address: 1005 N Abbe Rd, Elyria, OH 44035 Phone Number: 440.366.4215 Email Address: tsandu@lorainccc.edu

ABSTRACT

SCALING APPRENTICESHIP THROUGH SECTOR-BASED STRATEGIES	
Lead Applicant Organization's Name:	Miami Dade College
Lead Applicant Entity Type:	Institution of Higher Education
Lead Applicant City/State:	Miami, Florida

APPRENTICESHIP PARTNERSHIP

Required Partners: This includes at least one high-level representative from private industry that represents the sector or industry in which the applicant is proposing to take apprenticeships to scale. This required private sector partner must consist of: <ul style="list-style-type: none"> • One or more national industry/trade associations; or • A consortium of at least five businesses representing an industry sector. 		
• IF one or more national industry/trade associations		
Name of the national industry/trade association(s):	Industry Sector	
Computing Technology Industry Association (CompTIA)	IT	
• OR IF a consortium of at least five businesses representing an industry sector		
Organization Names of Required Partners:	Entity Type	Industry Sector

Optional Partners: These include organizations functioning as workforce intermediaries, such as workforce development boards, labor-management organizations, community-based organizations, and private non-profit service providers; other organizations to support outreach and training activities, such as: industry-led training organizations, industry intermediaries, unions, or non-profit educational organizations; Small Business Development Centers; American Job Centers; YouthBuild Programs; community organizations that provide social support and/or wrap-around services; State Apprenticeship Agencies; foundations and philanthropic organizations; and Federally-funded programs.		
Organization Names of Required Partners:	Entity Type	Industry Sector
Miami-Dade County Public Schools	School District	
CareerSource	Workforce Board	
EC-Council	Industry Certification	IT
American Association for Community Colleges	National association	Higher Education
Jobs for the Future	Scaling Partner	
Kaseya	National employer	IT
Proposed Service Areas: (where apprentices will initially be trained)	Miami-Dade and Polk Counties, Florida	
Total Funding Requested:	\$1,987,204	
Total Matched Funds:	\$695,521	
Project Title/name:	Miami Dade Apprenticeship Partnership in Information Technology (MAP IT)	

Summary of Program Activities and List of Credentials to be Awarded:	<p><u>Activities:</u> Ramp-up and Project Administration, Partnership Engagement, Outreach and Recruitment, Enrollment and Training, Case management and supportive services, employment placement, and follow-up.</p> <p><u>Credentials:</u> industry recognized certifications such as CompTIA+, Ethical Hacker, Network Defender, college credit certificates, associate and baccalaureate degrees</p>
Targeted Population(s) to be Served:	Unemployed, underemployed, incumbent workers, underserved and underrepresented populations such as veterans, people of color, and women.
Targeted H-1B Industry Sector:	Information Technology and related fields
Targeted Occupations within an H-1B industry sector:	Various within the IT and IT-related industries
Public Contact Information:	<p>Name, Title: John Wensveen, PhD</p> <p>Address: 300 NE 2nd Avenue, Miami, FL 33132</p> <p>Phone Number: 305-237-7296</p> <p>Email Address: jwensvee@mdc.edu</p>
If applying as an IHE representing a consortium of IHEs, provide the names of IHE consortium members.	<p>The consortium members are:</p> <p>Polk State College</p>

SCALING APPRENTICESHIP THROUGH SECTOR-BASED STRATEGIES	
Lead Applicant Organization's Name:	Pennsylvania College of Technology (PCT)
Lead Applicant Entity Type:	Technical College
Lead Applicant City/State:	Williamsport, Pennsylvania

APPRENTICESHIP PARTNERSHIP

Required Partners:		
• National Industry/Trade Associations		Industry Sector
PMMI (Packaging Machinery Manufacturers Institute)		Advanced Manufacturing (AM)
SPE Foundation (Plastics)		AM, Plastics
NIIMBL (National Institute for Innovation in Manufacturing Biopharmaceuticals)		AM, Biopharmaceuticals
LIFT (Lightweight Innovations for Tomorrow)		AM, Light Metals
• The Central PA AM Partnership, a consortium representing the AM Sector		
Organization Names of Required Partners	Entity Type	Industry Sector
Videon Central	Employer	AM - Electronics
SEKISUI SPI	Employer	AM - Plastics/Thermoforming
Lycoming Engines	Employer	AM - Aviation
Autoneum, North America	Employer	AM - Automotive
First Quality	Employer	AM - Consumer Goods
PMF Industries	Employer	AM - Metal Flowforming
• Optional Partners:		
Organization Names of Partners	Entity Type	Industry Sector
PA Apprenticeship Training Office (ATO)	State Agency	Advanced Manufacturing (AM)
CPWDC	Workforce Development Board	
NJ Department of Military and Veterans Affairs (NJ DMAVA)	State Agency	
Proposed Service Areas: (where apprentices will initially be trained)		PA, NJ, NY
Total Funding Requested:	\$7,996,530	
Total Matched Funds:	\$4,344,641 (includes 35% match and leveraged funds)	
Project Title/Name:	MIDAS – Modular, Industry-Driven Apprenticeship Strategies	
Summary of Program Activities and List of Credentials to be Awarded:	PCT and New Jersey Institute of Technology (NJIT) request funding for MIDAS, with a mission to increase skills of American workers to meet massive AM employer demand and fill H-1B occupations. To address this mission, the project has the following goals: 1) Reinvent apprenticeship models by	



<p>reconfiguring existing inflexible structures into leading-edge systems designed to meet the complex, rapidly changing needs of AM. Utilize smaller core competency modules that are flexible, customizable and stackable to meet employer needs for multiple occupations and have seamless options for registered programs and academic credit for prior learning. 2) Retrofit and expand current registered apprenticeships and develop complementary Industry Recognized Apprenticeship Programs (IRAPs) applicable across AM. 3) Create new modular apprenticeships in specialty AM industries aligned with PCT and NJIT expertise. 4) Create pre-apprenticeships to increase numbers of people entering high-demand occupations. 5) Continuously improve program effectiveness and scalability. Industry-recognized certification standards and credentials to be awarded include PMMI Mechatronics, NIMS CNC, MSSC IMT, ACT WorkKeys® National Career Readiness Certificate™, and others chosen or developed with industry input. The innovative MIDAS program offers highly customizable modules using a proven, effective shared tuition model.</p>	
Targeted Population(s) to Be Served:	Underemployed incumbent workers, veterans, military spouses and transitioning service members with upskill needs, WIOA out-of- school youth, women.
Targeted H-1B Industry Sector(s):	Advanced Manufacturing (AM)
Targeted Occupations within an H-1B industry sector:	Mechatronics Technicians, Computer-Numeric Control (CNC) Technicians, Plastics Process Technicians (Injection and Extrusion), Light Metals Machinists and Welders, Biological Technicians.
Public Contact Information:	
Name, Title: Address: Phone, Email	Shannon Munro, Vice President for Workforce Development, PCT One College Ave, Department 29, Williamsport, PA 17701 570-327-4775, smunro@pct.edu
IHE Consortium Partner's Name:	New Jersey Institute of Technology (NJIT)



ATTACHMENT 1: ABSTRACT (FOA Appendix G)

Lead Applicant Organization's Name:	Pima Community College
Lead Applicant Entity Type:	Institution of Higher Education
Lead Applicant City/State:	Tucson, Arizona
Required Partners: (<u>Sector: Advanced Manufacturing</u>) National Assoc. of Manufacturers/ Manufacturing Institute (NAM/Mi), National Tooling & Machining Assoc. (NTMA), and NIMS	
Optional Partners: Two community-based organizations, Chicanos Por La Causa (CPLC), and Tucson Urban League (both social service organizations)	
Proposed Service Areas: AZ-ATC Corridor (Maricopa, Pima and Pinal Counties in Arizona)	
Total Funding Requested: \$4,233,317 (Federal funds; excludes match)	
Total Matched Funds: \$1,483,827	
Project Title/Name: Industry-Recognized Apprenticeship Model in Manufacturing (i-RAMM)	
Summary of Program Activities and List of Credentials to be Awarded: <ul style="list-style-type: none"> Activities: <u>1) Employer engagement and technical support</u>, including training OJT supervisors; mapping occupational needs to credentials; assessing employees for participation; partial OJT reimbursement (for eligible employers only); <u>2) Services to Apprentices and Pre-Apprentices</u>, including recruitment, enrollment, assessment; career and college readiness; refresher courses; career advising; supportive services; scholarships/financial aid; clear pathway to middle- and high-skilled jobs, achieved by demonstrating competency and delivered via a hybrid of OJT, RTI and credit for prior learning; and replication and taking program to scale; Credentials to be Awarded: Arizona Career Readiness Certification (ACRC), <u>Machining Pathway:</u> NIMS Machining Level I and Level II, JPC-J-STD Soldering, NC3 	

(Precision Measurement, Torque & Metering), and <u>Mechatronics Pathway</u> : NIMS Industrial Maintenance Level I and Level II (when released), MSSC (Cert. Production Technician)
Targeted Population(s) to be Served: Pre-apprentices and Incumbent Workers
Targeted H-1B Industry Sector(s): Advanced Manufacturing
Targeted Occupations within an H-1B industry sector: <i>(The list represents ladder and latticed occupations, beginning at entry-level and extending into occupations for which program completers may qualify.)</i> Machining: Entry-level/Deburrer (SOC 51-9198), Computer-Controlled Machine Tool Operators (SOC 51-4011), Machinists (SOC 51-4041), Lathe and Turning Machine Tool Setters, Operators, and Tenders (SOC 51-4034), Computer Numerically Controlled Machine Tool Programmers (51-4012), Mechatronics: Helpers – Production Workers (SOC 51-9198), Packaging and Filling Machine Operators and Tenders (SOC 51-9111), Inspectors, Testers, Sorters, Samplers and Weighers (SOC 51-9061), Engine and Other Machine Assemblers (SOC 51-2031), Maintenance Workers, Machinery (SOC 49-9043), Industrial Machinery Mechanics (SOC 49-9041), Technicians, including Robotics Technicians and Electro-Mechanical Technicians (SOC 17-3024), First-Line Supervisors of Production and Operating Workers (SOC 51-1011), Engineering Technicians, including Manufacturing Production Technicians (SOC 17-3029), Industrial Engineering Technicians (SOC 17-3026), Electrical and Electronics Repairers, Commercial and Industrial Equipment (SOC 49-2094), Electrical Engineering Technicians (SOC 17-3023)
Public Contact Information: <u>Name, Title, and Address:</u> Dr. Ian Roark, Vice President of Workforce Development, Pima Community College District, 1255 North Stone Avenue Tucson, AZ 85709-0003 <u>Phone Number and Email Address:</u> (520) 206-6424, iroark@pima.edu

SCALING APPRENTICESHIP THROUGH SECTOR-BASED STRATEGIES	
Lead Application Organization's Name:	Purdue University
Lead Applicant Entity Type:	Institute of Higher Education
Lead Applicant City/State:	West Lafayette, Indiana

APPRENTICESHIP PARTNERSHIP:

Organization Name of Required Partners:	Entity Type	Industry Sector
Centurion Military Alliance	Non-profit	Military
ClearanceJobs	Company	Defense Job Placement
Cyber Leadership Alliance	Non-profit	Cybersecurity
Indiana Department of Workforce Dev.	State Agency	Workforce Development
Intl. Consortium of Minority Cybersecurity	Consortium	Cybersecurity
ManTech	Company	IT/Defense
Military Talent Group	Company	Military Recruiting
NASCO	Coalition	North American commerce
NextFlex	Consortium	Flexible Hybrid Electronics
NSWC Crane Division	Navy Installation	Defense
Raytheon	Company	Cybersecurity
SAIC	Company	Government Services Tech.
Southwest Indiana Development Council	Trade Org.	Regional Industry
TCC	Company	IT
Organization Names of Optional Partners:	Entity Type	Industry Sector
FASTPORT	Company	Military Job Placement

MetriKs Amérique	Company	Program Evaluation
Rofori	Company	Security

PROGRAM INFORMATION:

Proposed Service Areas: Indiana; regions with high unemployment/demand for cybersecurity	
Total Funding Requested: \$11,999,996	Total Matched Funds: \$4,200,200
Project Title/Name: P-CAP: Purdue Cybersecurity Apprenticeship Program	
<ul style="list-style-type: none"> • Summary of Program Activities and List of Credentials to be Awarded: Provide a 2-level curriculum that will give opportunity to receive an AAS in IT. a BS in Cybersecurity, and the following certifications: Network+, Cloud+, Linux+, Security+, System Security Certified Practitioner (SSCP), CCNA Routing & Switching, Certified Ethical Hacker (CEH), Certified Network Defender (CND), Global Info. Assurance, Certified Incident Handler, Certified Info. Security Professional, Global Information, Certified Info. System Security Pro. (ISSP) 	
Targeted Population(s) to be Served: Military/veterans, unemployed, underemployed, URM	
Targeted H-1B Industry Sector: Information Technology – Cybersecurity	
Targeted Occupations within an H-1B Industry Sector: Network Operation Support/Specialist, Cloud Operations Analyst, Linux System Administrator, Information Security Administrator, Network System Administrator, Information Security Analyst, Network Security Engineer, Information Security Engineer, Cybersecurity Analyst, Cloud Security Engineer, Sr. Software Engineer, Mobile Security Device Analyst, Cryptanalyst	
Public Contact Information: Name, Title: Dr. Geanie Umberger, Assoc. Dean for Engagement Add: 501 Northwestern Ave., W. Laf., IN 47907; (765)496-3723; gumberger@purdue.edu	
IHE Consortium Members:	Purdue University, Purdue University Global

Lead applicant name: Research Foundation for the State University of NY on behalf of SUNY

Lead Applicant Entity: Public/State Controlled Institution of Higher Education

Lead Applicant City/State: Albany, NY

Apprenticeship partnership: This project has built a high-level partnership of more than five businesses representing the advanced manufacturing sector, as shown below.

58 Employers Show Strong Support for SUNY's NY CAN Project					
Company	New	Existing	Company	New	Existing
LoDolce Machine Co	5	7	Sunoco Agri-Business	4	
Universal Metal Works	5	2-3	NicoForm	2	3
Packaging Technologies & Inspection	6	6	Fryer Machine Systems	8	7
Optimax	20	20	Fulton Tool Co.	4-6	3-4
Giuliant Machine Tool	3	5	Manth-Brownell	30	15
Gear Motions	3-5	40	Quad Graphics	4	-
JMA Wireless	15	-	Beech-Nut	10	10
TECT Power	42	28	Anoplate	2	8
Knowles Precision Devices	10	3	Chobani	5-7	30
Syracuse Label & Surround Printing	12	5	Forkey Construction and Fabricating	80	-
Bartell	15	5	SRC Tec	100	50
All Seasons Ingredients	2	5	Westrock Solvay-Mill	5	10
Consolidated Precision Products	20+	-	Northland Filter International	2	2
PPC Broadband	15	3	Cryomech	20-25	8-10
Advanced Tool	2	2	Bo-Mer	6-8	2-3
Unifrax	3	15	Ford	20	-
Amphenol	10-12	8	Brooks	2	3
Simmons	10	4	Greno	5-10	3
Polyset	8	14	Unison/GE	20	20
AMTEK	10	10	Vanchlor	12	5
Mechanical Rubber	7	3	Mohawk Fabric	3	-
Calvary Robotics	12	25	Borg Warner	35	130
Nortek Powder Coating	6	6	JML Optical	5	3
Giovanni Foods	2-4	2	Indium	50	50
Centrotherm Eco Systems	10-15	2-5	C.W. Bard	20	21
Specialty Silicone Products	2	1	Caplug	5	5
Hale	4	-	Fala Technologies	12	10
Eaton/Crouse Hinds	6	5	Fair-Rite	8	-
Totals: New Hires: 744; Existing Employees: 614; Overall Apprentices: 1,358					

Additional Partners: Additional project partners will increase outreach to employers, workforce boards and employers:

Manufacturers Assn. of Central New York	MACNY, which represents employers, will build off of its experience helping employers design high-impact apprenticeship projects and perform employer outreach to increase the numbers of employers using apprenticeships.
Workforce Development Board of Herkimer, Madison & Oneida Counties	The WDB operates an apprenticeship program that has created almost 300 apprenticeships in 2 years; it will use funding to support OJT training for employers.
Council of Industry (Hudson Valley)	The 130-member Council of Industry will connect employers in the high-growth Hudson Valley with the project.
NYS Dept. of Labor	NYSDOL, which oversees Registered Apprenticeships, will support the project through its apprenticeship program and also through staff of America's Job Centers

Proposed Services Area: New York State (SUNY has 30 community college locations)

Total Funding Requested: \$7,999,226

Total Match Funds: \$2,910,250. The project has \$2,339,045 in leveraged funds.

Project title / Name: SUNY New York College Apprenticeship Network (NYCAN)

Summary of activities / credentials: NYCAN responds to the top needs of employers in evaluating potential new hires: that new applicants lack the basic technical and math skills needed for the advanced manufacturing workplace. To address this, and to take advantage of the large pool of New Yorkers who started college but never gained a credential, the project will create the state's first online pre-apprenticeship program connecting unemployed New Yorkers with good-paying jobs. Strategically located outreach hubs will ensure grassroots outreach connects with New Yorkers on the other side of the skills gap from good-paying jobs, with a focus on veterans, women, populations of color and other historically underrepresented populations. Once these pre-apprentices are ready to move up, they and hires made by employers will access cutting-edge training that merges on-line instruction with hands-on experience. The project provides online Related Technical Instruction in the key sub-sectors of the advanced manufacturing sector. SUNY will work with employers to customize the on-line training in order to move apprentices through key stages of what they need to know and to do. The project also provides small employers with OJT funding to encourage the use of apprenticeships and deploys SUNY's vast corps of professors who serve as subject matter experts to help employers who are not used to apprenticeships develop top-flight training programs. RTI in apprenticeships will result in credit-bearing credentials that will be certified by SUNY. The pre-apprenticeship program will result in certifications employers require, including OSHA.

The project will achieve national replication by building on the success that multi-state employers experience in New York. Partner employers with manufacturing operations in New York also have operations in 25 other states, which will serve as the first wave of replication sites for the project, allowing this project to achieve the Department's purpose of increasing apprenticeships nationally.

Targeted populations: Unemployed, underemployed adults with a focus on under-represented populations; incumbent workers.

Targeted H-B Sector: Advanced Manufacturing

Targeted Occupations: Machinist, CNC Machinist, other positions on H-1B pathways.

Project Contact: Denise Zieske, Director of Workforce Development, Office of Community Colleges and the Education Pipeline, SUNY, State University Plaza, Albany, NY 12246.

Phone: 518.320.1160; Email: denise.zieske@suny.edu.

Abstract

I. **Lead Applicant Name:** San Jacinto Community College District

II. **Lead Applicant City/State:** Pasadena, Texas

III. **Primary Partnership Entities:**

a. **Private Sector Entity**

Organization Name	Entity Type	Industry Sector
IBM Corporation	Public Company	IT
Lockheed Martin Corporation	Public Company	IT-Related
Cerner Corporation	Public Company	IT
Cisco Systems	Public Company	IT
Rackspace	Private Company	IT

b. **Public Sector Entity**

Organization Name	Entity Type
Alamo Community College District	Public 2-year college
Austin Community College	Public 2-year college
Dallas County Community College District	Public 2-year college

IV. **Additional Key Partner(s):**

Organization Name	Entity Type
American Association of Community Colleges (AACC)	Non-profit organization
Texas Workforce Commission (TWC)	State Workforce entity
California Division of Apprenticeship Standards	State Apprenticeship entity

V. **Areas Served by Grant (by city, county, and state):** Austin, Texas MSA; Travis County, Texas; Dallas, Texas MSA, Dallas County, Texas; San Antonio, Texas MSA; Bexar County, Texas; Houston, Texas MSA; Harris County, Texas

VI. **Total Funding Level Requested:** \$12,000,000

VII. **Total Matched Funds:** \$4,200,000

VIII. **Project Name:** Texas Is IT! (TXIT)

IX. Summary of Program Activities: Starting in Texas and scaling nationwide with nationwide IT and IT-related companies and reaching out to small and medium-sized businesses, the four colleges will help employer partners build an apprenticeship pathway to middle and higher skills jobs. Together, the colleges and their employer partners will develop new apprenticeships in IT occupations where H-1B visas are currently being used in Texas. Working with workforce system partners, the colleges will bring at least 40 employers of all sizes into the apprenticeship system. Starting in Texas, the project will move to the California Division of Apprenticeship Standards to scale the program nationwide. In addition to partner companies—IBM, Lockheed Martin Corporation-IT-related, Cerner Corporation, Cisco Systems and Rackspace—the colleges are discussing partnerships with USAA, CompTIA, Accenture and Facebook that will benefit the project in years 2-4 and bring it to full national scale.

X. Total Number of Participants to be Served: at least 5,000

XI. Populations to be Served: unemployed, underemployed, incumbent IT workers; veterans and military families; underserved populations including women, persons of color, and ex-offenders.

XII. Targeted Industry(s)/Occupations: IT/IT-related, various occupations in IT with existing H-1B visas in Texas and across the nation.

XIII. Public Contact Information: Dr. Sarah Janes, Associate Vice Chancellor, San Jacinto Community College District, sarah.janes@sjcd.edu, 281-478-3605

Scaling Apprenticeship through Sector-Based Strategies	
Lead Applicant Organization:	St. Louis Community College (STLCC)
Lead Applicant Entity Type:	Two-Year Institution of Higher Education
Lead Applicant City/State:	St. Louis, Missouri

Apprenticeship Partnership

Required Partner:	
National Industry/Trade Association – National Institute of Metalworking Skills (NIMS)	Industry Sector - Advanced Manufacturing

Optional Partners: A few examples of other consortium partners are listed below.		
Organization Name: (examples)	Entity Type	Industry Sector
After Action Network (AAN)	Veteran Service non-profit	Liaison for customized programs and services in healthcare and new career pathways
Economic Development Corporation of Kansas City	Economic Development Corporation	All, including Advanced Manufacturing
Mineral Area Training Consortium	Manufacturer Consortium (18 manufacturers)	Advanced Manufacturing including welding, maintenance CNC and automation
Missouri Department of Corrections	Agency for Justice-Involved Individuals	All, including Advanced Manufacturing
Workforce Development Board of Southeast Missouri	Liaison within 13 counties for employment and training opportunities	All, including Advanced Manufacturing
St. Louis Job Corps	Career technical and academic training for young people 16 -24	All, including Advanced Manufacturing

Consortium Key Educational Partners:	1) East Central College 2) Jefferson College 3) Metropolitan Community College 4) Mineral Area College 5) Moberly Area Community College 6) St. Charles Community College 7) State Fair Community College 8) State Technical College of MO
Proposed Service Areas: (where apprentices will initially be trained)	State of Missouri
Total Funding Requested:	\$11,990,952
Total Matched Funds:	\$4,236,345

APPENDIX G: ABSTRACT - Missouri Apprenticeships in Manufacturing Programs (MoAMP)

Project Title/Name:	Missouri Apprenticeships in Manufacturing Programs (MoAMP)
Summary of Program Activities and List of Credentials to be Awarded:	Consortium members will work with our national industry partner and employer partners to create new and expanded apprenticeship opportunities within the Advanced Manufacturing sector for scaling to the national level. Academic and industry-recognized credentials will be awarded, including but not limited to: OSHA, NIMS, MSSC, and AWS.
Targeted Population(s) to be Served:	Unemployed, underemployed, and incumbent workers (older than age 16), with emphasis on veterans, military spouses, transitioning service members, ex-offenders, and underrepresented groups including women and people of color.
Targeted H-1B Industry Sector(s):	Advanced Manufacturing
Targeted Occupations within this H-1B industry:	The consortium will target 37 occupations across the Advanced Manufacturing sector, including 28 occupations in the Production and Maintenance pathway, four in the Logistics pathway and five in the Automation and Systems pathway.
Public Contact Information:	Hart Nelson, Associate Vice-Chancellor Workforce Solutions Group St. Louis Community College 3221 McKelvey Road, Bridgeton, MO 63044-2553 Phone Number: 314-539-5311 Email Address: hartnelson@stlcc.edu

ABSTRACT

SCALING APPRENTICESHIP THROUGH SECTOR-BASED STRATEGIES	
Lead Applicant Organization's Name	Clark University
Lead Applicant Type	Institute of Higher Education
Lead Applicant/City State	Worcester, Massachusetts

APPRENTICESHIP PARTNERSHIP

REQUIRED INDUSTRY PARTNERS		
Organization Name	Entity Type	Industry Sector
Public Consulting Group, Inc.	Private Sector	Technology
Certiport, a Pearson Vue company	Private Sector	Technology
Info Tech	Private Sector	Technology
Mako USA	Private Sector	Technology
Intermed	Private Sector	Technology
Altavian	Private Sector	Technology
Onward Payments Inc.	Private Sector	Technology
Modernized Mobile	Private Sector	Technology
Study Edge	Private Sector	Technology
Admiral	Private Sector	Technology
Lucravalde	Private Sector	Technology
Antibiotic Adjuvant	Private Sector	Technology
Tera Insights	Private Sector	Technology

INSTITUTION OF HIGHER EDUCATION CONSORTIUM MEMBERS
University of Florida
University of California, Merced
Rancho Santiago Community College
Santa Fe Community College
Florida Vocational Institute

OPTIONAL PARTNERS		
Organization Name	Entity Type	Industry Sector
National Association of Workforce Boards	Workforce Intermediary	n/a
CareerSource North Central Florida	LWDB	n/a
San Diego Workforce Partnership	LWDB	n/a
Contra Costa County Workforce Development Board	LWDB	n/a
Las Vegas Workforce Connections	LWDB	n/a
Boston Workforce Board	LWDB	n/a
St. Louis Agency on Training and Employment	LWDB	n/a

Portland Metro Workforce Development Board	LWDB	n/a
Nova Workforce Development	LWDB	n/a
Workforce Solutions Borderplex	LWDB	n/a
Bucks County Workforce Development Board	LWDB	n/a
Kansas City & Vicinity Workforce Development Board	LWDB	n/a

Proposed Service Areas:	Florida; Massachusetts; California; Las Vegas, Nevada; St. Louis, Missouri; Portland, Oregon; El Paso, Texas; Kansas City, Missouri
Total Funding Requested	\$11,999,770.98
Total Match Requested	\$4,203,000.00
Project Title/Name	Tech Quest Apprenticeship Expansion Consortium
Summary of Program Activities	
The Tech Quest Consortium will provide apprenticeship training to 5,000 unemployed, underemployed and incumbent workers in multiple locations throughout the United States in a variety of IT and IT related industries. Training will include pre-apprenticeships, registered apprenticeships and new industry recognized apprenticeships in IT. There are currently 12 Standard Occupation Code 15 approved registered apprenticeship standards; we are proposing to register an additional five new occupations;	
List of Credentials to be Awarded	College credit, IT certifications from Microsoft, Oracle, Cisco, Comp TIA, Apple
Targeted Population to be Served	Unemployed, Underemployed and Incumbent Workers
Targeted H-1B Industry Sector	IT and IT related
Targeted Occupations within an H-1B industry sector	Business Analyst; Business Intelligence Analyst; Data Science Analyst; User Support Specialist; IT project Manager; Computer Systems Planning and Implementation; Public Health Informatician; Software Developer; Database Technician; Information Assurance Specialist; Information Technology Specialist; IT Generalist
Public Contact Information	Name: David Angel, President Address: 950 Main Street, Worcester, MA 01601 Phone Number: 508-792-7320 Email Address: dangel@clarku.edu

Scaling Apprenticeship Through Sector-Based Strategies

Lead Applicant Organization's Name:	University of Cincinnati
Lead Applicant Entity Type:	Higher Education Institution
Lead Applicant City/State:	Cincinnati, Ohio

Required Partners:		
Organization Name	Entity Type	Industry Sector
Cincinnati USA Chamber of Commerce	Chamber of Commerce	ALL
REDI Cincinnati	Regional Economic Development	ALL
Curvature	Industry	Information Technology
Northrop Grumman	Industry	Cyber-Security and IT
Kinetic Vision	Industry	IT and Product Development
Pepulab	Industry	Software Development
GE Aviation	Industry	Aerospace/IT Related
IBM	Industry	Information Technology
Lubrizol	Industry	Manufacturing
Optional Partners:		
Organization Name	Entity Type	Industry Sector
The Cincinnati CIO Roundtable	Professional Association	Information Technology
Discovery Lab	501c3	IT/IT-related
World Association of Cooperative Education	501c3	ALL

Proposed Service Areas:	Cincinnati, OH
Total Funding Requested:	\$11,893,184
Total Matched Funds:	\$4,200,000

Project Title/Name:	“NEXT” Apprenticeship Program
Summary of Program Activities and List of Credentials to be Awarded:	<p>The NEXT Apprenticeship Program will enable robust pathways for unemployed and underemployed underrepresented minority populations (URMs) to secure middle- and high-skilled jobs in the high-paying Information sector. The program will prepare candidates to fill these roles by offering flexible educational and experiential (work integrated) opportunities tailored to a wide variety of individuals. NEXT will equip candidates with practical education to augment their skills and knowledge gap, and with industry training and experience to prepare them for in-demand roles.</p> <p>Degree Attainment: Program participants will be able to earn relevant Associate’s degrees, Bachelor’s degrees, and Graduate Certificates as part of the NEXT program.</p> <p>Credentials: NEXT incorporates 22 nationally portable, industry-recognized credentials from Cisco and CompTIA.</p>
Targeted Population(s) to be Served:	5,000+
Targeted H-1B Industry Sector(s):	Information Technology
Targeted Occupations within an H-1B industry sector:	<ul style="list-style-type: none"> ● Computer and IT System Support Technician ● Web Developer ● Computer Programmer ● Computer Systems Analyst ● Business Intelligence Analyst ● Network and Computer Systems Administrator ● Database Administrators ● Software Application ● Hardware Design Technician ● Health Information Management
Public Contact Information	<p>Name, Title: David Gearing, Director, Grants and Contracts</p> <p>Address: 540 University Hall, Cincinnati, OH</p> <p>Phone Number: (513) 556-5969</p> <p>Email Address: gearridd@ucmail.uc.edu</p>
If applying as an IHE representing a consortium of IHEs, provide the names of IHE consortium members.	<p>The consortium members are:</p> <ul style="list-style-type: none"> ● Johnson C. Smith University ● Wentworth Institute of Technology ● Xavier University ● Cincinnati State Technical and Community College ● Northern Kentucky University

SCALING APPRENTICESHIP THROUGH SECTOR-BASED STRATEGIES	
Lead Applicant Organization's Name:	Weber State University
Lead Applicant Entity Type:	Institution of Higher Education
Lead Applicant City/State:	Ogden/Utah

APPRENTICESHIP PARTNERSHIP

<p>Required Partners: This includes at least one high-level representative from private industry that represents the sector or industry in which the applicant is proposing to take apprenticeships to scale. This required private sector partner must consist of:</p> <ul style="list-style-type: none"> One or more national industry/trade associations; or A consortium of at least five businesses representing an industry sector. 		
<p>• IF one or more national industry/trade associations</p>		
Name of the national industry/trade association(s):	Industry Sector	
Utah Technology Council	I.T.	
<p>• OR IF a consortium of at least five businesses representing an industry sector</p>		
Organization Names of Required Partners:	Entity Type	Industry Sector
O.C. Tanner	For Profit	I.T.
Bridge Investment Group	For Profit	I.T.
Smith Johnson	For Profit	I.T.
HealthEquity	For Profit	I.T.
<p>Optional Partners: These include organizations functioning as workforce intermediaries, such as workforce development boards, labor-management organizations, community-based organizations, and private non-profit service providers; other organizations to support outreach and training activities, such as: industry-led training organizations, industry intermediaries, unions, or non-profit educational organizations; Small Business Development Centers; American Job Centers; YouthBuild Programs; community organizations that provide social support and/or wrap-around services; State Apprenticeship Agencies; foundations and philanthropic organizations; and Federally-funded programs.</p>		
Organization Names of Optional Partners:	Entity Type	Industry Sector
Department of Workforce Services	Government	Workforce
STEM Action Center	Government	Workforce
Department of Veteran and Military Affairs	Government	Military
Apprenti	Non-Profit	Workforce
Proposed Service Areas: (where apprentices will initially be trained)	Ogden, Salt Lake City	
Total Funding Requested:	\$2,000,000	

Total Matched Funds:	\$1,320,000
Project Title/Name:	Utah Computing Apprenticeship (UCAC) Project
Summary of Program Activities and List of Credentials to be Awarded:	<p>Program Summary: Paid, Work-based component; OJT Training and Mentoring; Pre-Apprenticeships; Educational and Instructional Component and Industry-recognized Credential; Safety, Supervision and equal employment opportunity; Virtual online training; Accelerated training; Education Completion</p> <p>Credentials to be Awarded: All industry recognized I.T. credentials</p>
Targeted Population(s) to be Served:	UCAC will create greater access to IT employment and training for diverse, underrepresented populations, including women and people of color, veterans, military spouses, transitioning service members, ex-offenders, and underemployed individuals.
Targeted H-1B Industry Sector(s):	The UCAC Project will target H-1B IT and IT-related industries . Although the project is targeting the IT industry, the demand for computing talent exists in nearly all industry sectors including healthcare, financial, aerospace and defense, outdoor products, and even trade-based sectors. By targeting the IT and IT-related industries this project will have a significant impact on Utah's economy and industry growth.
Targeted Occupations within an H-1B industry sector:	Operations (Network Administration, Systems Administration, Cybersecurity Administration), Software Engineer (QA, Mobile App Development), , Application Support (Project Management, Business Analysis, System Analysis, Enterprise Application), Data Reporting (Database Administration, Database Architecture, Data Analysis), Security (Governance and Audit) and Product Support (Sales Engineering, Technical Support, Technical Sales).
Public Contact Information:	<p>Name, Title: James Taylor, Director of the Office of Sponsored Projects at Weber State University</p> <p>Address: 3850 Dixon Parkway Dept. 1027 Ogden, UT 84408-1027</p> <p>Phone Number: (801) 626-6055</p> <p>Email Address: jamestaylor8@weber.edu</p>
If applying as an IHE representing a consortium of IHEs, provide the names of IHE consortium members.	The consortium members are: Weber State University, Salt Lake Community College, Davis Technical College

Abstract

<i>Scaling Apprenticeship Through Sector-Based Strategies</i>	
Lead Applicant Organization's Name:	West Los Angeles College
Lead Applicant Entity Type:	Institution of Higher Education/Hispanic Serving Institution
Lead Applicant City/State:	Culver City, CA

Apprenticeship Partnership

• If one or more national industry/trade associations	
Name of the national industry/trade association(s)	Industry Sector
Aerospace Industries Association	Aerospace
Society of Manufacturing Engineers	Advanced Manufacturing
Institute for American Apprenticeships	Advanced Manufacturing

Optional Partners:		
Organization Names of Optional Partners	Entity Type	Industry Sector
South Bay Workforce Investment Board	Public workforce development agency	Across all sectors
Training Funding Partners	Training intermediary	Across all sectors
Goodwill of Southern California	Training intermediary	Across all sectors
CareerSource, Florida	Public workforce agency	Across all sectors
CareerSource, West Palm Beach	Public workforce agency	Across all sectors
YouthBuild	Education and workforce development agency	Across all sectors
Advanced Manufacturing Partnership of Southern California	Represents the southern-most ten counties in California, a federally designated manufacturing community	Advanced Manufacturing
Proposed Service Areas: (where apprentices will initially be trained)	Southern California ♦ Reno/Sparks, NV ♦ Brevard and Palm Beach Counties, FL ♦ Kentucky ♦ New Hampshire ♦ Vermont ♦ New York	
Total Funding Requested:	\$12,000,000	
Total matched Funds:	\$4,200,000	
Project Title/Name:	Growing Advanced Manufacturing Apprenticeships Across America	
Summary or Program Activities and List of Credentials to be Awarded:	Program Activities: Recruit and enroll target populations in career pathway pre-apprenticeships, registered apprenticeships, and industry recognized apprenticeship programs ♦ Increase the number of apprentices and registered apprenticeships ♦ Ensure incumbent workers have skills needed for upward progression in career pathway ♦ Increase the number of participating employers	

	Credentials to be awarded: College certificates, credit and degrees ♦ Tooling U-SME competency demonstration certifications ♦ Blueprint work readiness certification ♦ Pre-apprentice completion certification ♦ Apprentice certifications
Target Population(s) to be Served:	Veterans ♦ Transitioning military personnel ♦ Military spouses ♦ People of color ♦ Women ♦ Youth aged 17+ and not enrolled in LEA programs ♦ Ex-offenders ♦ Unemployed individuals ♦ Underemployed individuals ♦ Incumbent worker in need of skills upgrades
Targeted H-1B Industry Sector(s):	Advanced Manufacturing industry and sectors within it such as aerospace & defense, energy storage, bioscience
Targeted Occupations within an H-1B industry sector:	Aerospace Engineer ♦ Aerospace Engineering and Operations Technicians ♦ Aircraft Structural, Surfaces, Rigging, and Systems Assemblers ♦ Avionics Technicians ♦ Biochemists and Biophysicists ♦ Biological Technicians ♦ Biomedical Engineers ♦ Chemical Technicians ♦ CNC Machine Tool Programmer ♦ CNC Machine Tool Operators, Metal and Plastic ♦ Electrical and Engineering Technicians ♦ Engineering Technicians ♦ Information Security Analysts ♦ Machinist ♦ Manufacturing Production Technician ♦ Materials Engineer ♦ Mechanical Engineer ♦ Mechatronics Engineer ♦ Medical and Clinical Laboratory Technicians ♦ Medical and Clinical Laboratory Technologists ♦ Metal Worker ♦ Microbiologists ♦ Product Safety Engineer ♦ Quality Control Technician/Inspector ♦ Regulatory Affairs and Compliance Specialist ♦ Robotics Engineers ♦ Robotics Technicians ♦ Software Developers, Applications ♦ Tool & Die Maker
Public Contact Information:	<i>Name, Title:</i> Aracely Aguiar, Vice President of Academic Affairs <i>Address:</i> West Los Angeles College, 9000 Overland Avenue, Culver City, CA 90230 <i>Phone Number:</i> 310-287-4238 <i>Email:</i> Address: aguaira@wlaac.edu
If applying as an IHE representing a consortium of IHEs, provide the names of IHE consortium members.	West Los Angeles College ♦ College of the Canyons ♦ El Camino College ♦ Truckee Meadows Community College ♦ Columbia College ♦ Onondaga Community College

Abstract

Lead Applicant's Name: West Virginia Community and Technical College System

Lead Applicant Entity Type: State system of higher education (community college system)

Lead Applicant City/State: Charleston, West Virginia

Required Partners	
Name of the national industry/trade association(s):	Industry Sector
TechConnect WV	Information Technology (IT)
National Guard's Cybersecurity Workforce Strategic Planning Group	IT

Consortium of Businesses Representing an Industry Sector: AIM includes the following 17 private sector businesses partners that represent the IT industry sector: 1) IBM, 2) BDC, 3) ATS, 4) Bluestone Analytics, 5) Core 10, 6) Dyna-Mix, 7) E&H Manufacturing, 8) Lester Square Pharmacy, 9) Niche Polymer, 10) Real Alloy, 11) TMC Technologies, 12) Wheeling Hospital, 13) Williamson Health Wellness Center, 14) WV Rural Water Association, 15) Allegheny Wood Products, 16) Childers Enterprises, and 17) Innovative Solutions Technology.

Optional Partners		
Organization Names of Optional Partners:	Entity Type	Industry Sector
Blue Ridge CTC	Community Technical College (CTC)	N/A
BridgeValley CTC	CTC	N/A
Eastern CTC	CTC	N/A
Mountwest CTC	CTC	N/A
New River CTC	CTC	N/A
Pierpont CTC	CTC	N/A
Southern WV CTC	CTC	N/A
WV Northern CTC	CTC	N/A
WV University at Parkersburg	CTC	N/A
Cuyahoga Community College	CTC	N/A
WV Department of Commerce's WorkForce WV and its seven workforce development boards	Government workforce agency	N/A
Chamber of Commerce	Government agency	N/A
WV Department of Health and Human Resources	Government agency	N/A
Small Business Development Centers	Government workforce agency	N/A
WV Development Office	Government workforce agency	N/A

WV Office of Apprenticeship	Government workforce agency	N/A
American Association of Community Colleges	Public nonprofit	N/A

Proposed Service Areas (where apprentices will initially be trained): West Virginia

Total Funding Requested: \$3,999,571

Total Matched Funds: \$1,399,850 (match); \$3,453,794 (leverage) for a total of \$4,853,644

Project Title/Name: Apprenticeships in Motion (AIM)

Summary of Program Activities and List of Credentials to be Awarded: Apprenticeships with paid, on-the-job training coupled with technical instruction at a partnering CTC that results in credentials, including but not limited to CompTIA A+, Network+, Security+, Linux+; CISCO CCDA certification, Certified Network Associate (CNA), CNA Cyber Operations; Microsoft Applications certificate; EC Council Certified Ethical Hacker; EC Council Certified Networks Defender; Network Specialties certificate; Systems Networking certificate; American Design Drafting Association Certification; Drafting and Solid Modeling Technology certificate

Targeted Population(s) to be Served: Underemployed and unemployed, incumbent IT workers

Targeted H-1B Industry Sector(s): Information technology

Targeted Occupations: Computer and information systems managers, computer systems analysts, information security analysts, software developers, computer user support specialists, community occupations, architectural and civil drafters, drafters, medical records/ health information technicians, computer/automated teller/office machine repairs

Public Contact Information: Casey K. Sacks, Ph.D., Vice Chancellor; 1018 Kanawha Blvd., East, Suite 700, Charleston, WV 25301; 681.313.2223; sacks@wvctcs.org

If applying as an IHE representing a consortium of IHEs, provide the names of IHE consortium members: Not applicable