

NEW JERSEY STATE TRANSPORTATION INNOVATION COUNCIL www.NJDOTtechtransfer.net/NJ-STIC

2ND Quarterly Meeting June 15, 2022



WELCOME

Michael Russo Assistant Commissioner NJDOT Planning, Multimodal & Grant Administration





WELCOME ATTENDEES & SPECIAL GUESTS

Continuing Education & Workforce Development Hudson County Community College Lori Margolin, Vice President

NJ Dept. of Labor & Workforce Development Office of Apprenticeship Nick Toth, Director

International Union of Operating Engineers Local 825 Greg Lalevee, Business Manager





FHWA UPDATES



Helene Roberts, P.E. Innovation Coordinator & Performance Manager FHWA, NJ Division Office

CIA TEAM SAFETY

NJDOT – Dan LiSanti FHWA – Keith Skilton CORE INNOVATION AREA REPORTS

CIA TEAM INFRASTRUCTURE PRESERVATION

NJDOT – Shivani Patel FHWA – Nunzio Merla

CIA TEAM MOBILITY & OPERATIONS

NJDOT – Sue Catlett FHWA – Ek Phomsavath CIA TEAM ORGANIZATIONAL SUPPORT & IMPROVEMENT

> NJDOT – Zenobia Fields FHWA – Brian Goodson

CIA TEAM Safety

NJDOT – Dan LiSanti FHWA – Keith Skilton

U.S. Department of Transportation

Safe Streets and Roads for All (SS4A)



SS4A NOFO Is Now Open





<u>Submit</u> technical questions by August 15, 2022

<u>Apply</u> by September 15, 2022, at 5:00 p.m. EDT (no late applications will be accepted)



Additional resources about SS4A and the NOFO can be found at <u>https://www.transportation.gov/SS4A</u>

SS4A Overview: Eligible Recipients

- Metropolitan planning organization (MPOs)
- Political subdivision of a State
 - A unit of government under the authority of State law, including cities, towns, counties, special districts, and similar units of local government.
 - A transit district, authority, or public benefit corporation if it was created under State law, including transit authorities operated by political subdivisions of a State.
- Federally recognized Tribal government
- Multijurisdictional groups comprised of the entities above

SS4A Overview: Funding

Grant Type	Political subdivision of a State	Federally recognized Tribal Government	MPO or joint application	Cost share/match
				 80% Federal 20% local match cost share
Expected Action Plan Grant Size	\$200,000 - \$1M	\$200,000 - \$1 million	\$200,000 - \$5M	 Not more than 15% of funds can be awarded to projects in a single State in a given fiscal year
Expected Implementation Grant Size	\$5M - \$30M	\$3M - \$30M (also applies to rural applicants)	\$5M - \$50M (\$3M - \$50M for rural applicants)	 Tribal projects are not considered part of the State cap No set-aside for rural areas or other grantee categories

Grant Types

Action Plan

Develop or Complete a Comprehensive Safety Action Plan See NOFO, Table 1 on page 4

Conduct supplemental action planning activities (in support of an existing Comprehensive Safety Action Plan)

See NOFO, section 3b on page 12

Implementation

• Implement projects and strategies

- Conduct planning and design
- Conduct supplemental action planning activities (in support of an existing Comprehensive Safety Action Plan)

NOFO,

pg. 6

 Applicant must already have established Action Plan in place. Activities must be tied directly to projects and strategies identified in Action Plan.

• See NOFO, section 3ii on page 15

Planning Grants



Implementation Grants

- Implementation Grants fund projects and strategies identified in an Action Plan that address a roadway safety problem.
- Applicants **must** have an established Action Plan to apply for Implementation Grants.



APPLICATION DETAILS

- Final applications for Safe Streets and Roads for All (SS4A) grants must be submitted through <u>Grants.gov</u>.
- Please be aware that you must complete the Grants.gov registration process before submitting the final application, and that this process usually takes 2-4 weeks to complete. Applicants are encouraged to start the Grants.gov registration process now.
- Final applications must be submitted by 5:00 p.m. EDT on Thursday, September 15, 2022. Applicants are strongly encouraged to make submissions in advance of the deadline.

Unique Entity Identifiers

- All applicants will need to obtain a Unique Entity Identifier (UEI) through GSA to apply for grant opportunities in grants.gov.
- On April 4, the federal government stopped using Dun & Bradstreet's proprietary Data Universal Numbering System (DUNS) to identify contractors and grantees and began exclusively using the Unique Entity Identifier (UEI).
- The process of obtaining a UEI can take up to a month, so applicants are encouraged to apply for the UEI now. If you previously had a DUNS number, your UEI has already been created and is available to view in SAM.gov.
- For more information, see https://sam.gov/content/home.

Federal Grants

- The R.O.U.T.E.S. grant applicant toolkit provides applicants with a roadmap and an overview of USDOT funding programs and opportunities.
- The toolkit includes specific tips on applying as a smaller applicant entity.
- The R.O.U.T.E.S. website hosts videos describing the toolkit and a PDF of the toolkit.
- www.transportation.gov/rural/grants/toolkit



APPLICANT TOOLEIT FOR COMPETITIVE FUNDING PROGRAMS AT USDOT JULY 27, 2020

GRANTS.GOV

- Grants.gov also provides resources for applicants, including:
 - Grants 101 related materials on the overall discretionary funding process
 - Applicant training for using the Grants.gov application process

More information can be found at: <u>https://www.grants.gov/web/grants/learn-grants.html</u>



Application Aids

 A series of checklists, planning worksheets, and fillable forms is available on the SS4A website to help guide applicants through the eligibility and application process.



Friendly Advice and Reminders

- The SS4A program will consider one application per applicant, and applicants may only apply to one type of grant.
- Applicants must have an eligible Action plan in place to apply for an Implementation grant.
- The SS4A Program will not review or certify substantially similar plans to determine eligibility for Implementation Grants.
- Multiple Action Plan Grant applications that cover the same geographic area for an Action plan will be flagged as potentially duplicative and may not be funded.
- DOT encourages joint applications and partnerships.

SS4A Website

U.S. Department of Transp	portation ABOUT DOT PRIORITIES CONNECT Q			
Home \ Grants				
Safe Streets and Roads for All Grants	Safe Streets and Roads for All (SS4A) Grant			
About Safe Streets and Roads for All Grants	Program			
Webinar Series	The Bipartisan Infrastructure Law (BIL) established the new Safe Streets and Roads for All (SS4A) discretionary program with \$5 billion in appropriated funds			
Resources	over the next 5 years. In fiscal year 2022 (FY22), up to \$1 billion is available. The			
FAQs	SS4A program funds regional, local, and Tribal initiatives through grants to prevent roadway deaths and serious injuries.			
Related Links Bipartisan Infrastructure Law Technical Assistance and 	The SS4A program supports Secretary of Transportation Pete Buttigieg's National Roadway Safety Strategy and the Department's goal of zero deaths and serious injuries on our nation's roadways.			
Local Support (FHWA) Complete Streets (FHWA) Countermeasures That Work 	FY22 Notice of Funding Opportunity is open, now through September 15, 2022			
(NHTSA) • Local Road Safety Plans (FHWA)	The FY22 Notice of Funding Opportunity (NOFO) for Safe Streets and Roads for All grants is live on Grants.gov.			
• <u>Our Roads, Our Safety</u> (FMCSA)	The deadline for applications is 5:00 p.m. EDT on September 15, 2022. For details, more information, and applicant guidance:			
 <u>Proven Safety</u> <u>Countermeasures (FHWA)</u> <u>Zero Deaths – Saving Lives</u> through a Safety Culture and 	 <u>Review the NOFO</u> <u>Visit our "How to Apply" assistance page</u> <u>Attend a "How to Apply" webinar</u> 			

www.transportation.gov/SS4A



QUESTIONS?

CIA TEAM INFRASTRUCTURE PRESERVATION

> NJDOT – Shivani Patel FHWA – Nunzio Merla

DC - 6 Digital As-Builts



Purpose: To explore the use of 3D models to build projects and update that digital information to reflect the project's as-built condition

Status:

- Team is in the process of selecting a pilot project (OpenRoads software)
- Creation of the as-built survey will provide a digital twin (for comparison)
- Team speaking with GIS SME on how to store digital as-builts
- Team has reported significant progress

e-Ticketing

EDC - 6



Purpose: Provide stakeholders with an electronic means to produce, transmit, and track and verify materials deliveries

Status:

• Third vendor has provided a product demonstration



- Seeking funding for required cellphone app and accompanying software
- Next steps: Selection of a vendor and commencement of pilot projects



Targeted Overlay Pavement Solutions (TOPS)



Purpose: To develop and install overlays that provide long-life performance under a wide range of traffic, environmental, & existing pavement conditions

Status:

- Ultra High Performance Thin Overlay is included in the Route 42 project (UPC 213090) which is out for bid
- NJDOT Pavement Management Unit acquired new skid testing equipment
- In the next months, the team will monitor and analyze results to advise the department on future use



UHPC for Bridge Preservation and Repair



Purpose: To explore the use of UHPC for Bridge Preservation and Repair

Status:

- Team participated in FHWA-sponsored UHPC Peer Exchange May 9-11, 2022
- Second UHPC overlay testing completed-NJ 159 WB over Passaic River Bridge
- Team will present at the 39th Annual International Bridge Conference July 18-20, 2022
- Preparing for the first UHPC link slab applications-Superstructure Replacement Project, River Road over Rt. 287 Bridge



QUESTIONS?

CIA TEAM Organizational Support & Improvement

NJDOT – Zenobia Fields FHWA – Brian Goodson

Strategic Workforce Development



Update – Succession Planning Efforts

- Working Group Meeting June 22nd at 10am via Teams
- Formalize Goals and Timeline
 - Formulate Department-Wide Mentorship Program
 - Identify Emerging Skillset need with Partners
 - Continue Industry Association Outreach
 - Continue College/University Outreach

Virtual Public Involvement

National Virtual Public Involvement (VPI) Peer Exchange

- Development Conversations Delayed by FHWA HQ
- Desire to do something smaller scale the summer?
 - MPO and Other Partner Participation?
- Interactive Engaging Tools
- ✤ Local and audience perspective



QUESTIONS?

CIA TEAM MOBILITY & OPS

NJDOT – Sue Catlett FHWA – Ek Phomsavath

EDC-6: Next-Generation TIM: Integrating Technology, Data, and Training

NJDOT collaborating with NJSP

- Computer-Aided Dispatch (CAD) integration project
- CAD integration into traffic operation centers to improve incident response and quicker clearance.
- NJ State Police has installed new CAD system (Motorola FLEX).

"Development" Stage

- Assembled a team
- In discussions with NJ State Police on access/deployment for DOT



EDC-6: Crowdsourcing for Advancing Operations

NJDOT collaborating with Drivewyze

- Real-time trucking alert system
- Improve mobility and traffic operations
- Reduce commercial vehicle crashes

"Assessment" Stage

- Identified the use case.
- Reviewing the traffic alert data.
- Assessing the performance of the notification system.





QUESTIONS?

Feature Presentation Strategic Workforce Development

> Lori Margolin, HCCC Nick Toth, NJDOL Greg Lalevee, IUOE
NJ State Transportation Innovation Council Quarterly Meeting – June 15th

Strategic Workforce Development Hudson County Community College Presentation

> Lori Margolin, Associate Vice President Continuing Education and Workforce Development



Introduction

- <u>Hudson County Community College (HCCC)</u>
 - Hudson County Community College is an award-winning, comprehensive urban college located just minutes from Manhattan with the main campus in Jersey City.
 - The College serves over 17,000 credit and noncredit students annually in one of the most densely populated and ethnically diverse areas of the United States.
 - HCCC's achievements have been nationally recognized by the Association of Community College Trustees (ACCT) with the Northeast Region Equity Award and by Insight into Diversity magazine as recipient of the 2021 Higher Education Excellence in Diversity (HEED) Award, as well as many awards others over the past several years.
 - The mission of Hudson County Community College (HCCC) is to provide its diverse communities with inclusive, high-quality educational programs and services that promote student success and upward social and economic mobility. In support of the mission, the 2021-2024 Strategic Plan is focused on student success and the principles of diversity, equity, and inclusion.
 - Continuing Education and Workforce Development is a comprehensive provider of educational programs including recreational courses, skill-building courses, industryrecognized credential training, and training for local area businesses, both basic skills and customized.
 - Currently have healthcare training, apprenticeship programs, advanced manufacturing training, educational programs for incarcerated and previously incarcerated students, and many others.



Working Together to Create Workforce Solutions

<u>Employer</u>

- Identify hard to fill roles
- Identify positions and occupations which are projected to remain strong over the next five years
- Provide job responsibilities and required credentials
- <u>HCCC</u>
 - Build robust training programs, which include experiential learning (e.g., apprenticeship, internship), and create pathways for students
 - Identify a diverse pool of candidates who are a good fit
 - Identify short-term solutions while building the pipeline
 - Partner with the Centers for Workforce Innovation



Construction Center for Workforce Innovation

- NJ Pathways to Career Opportunities program, a joint initiative of the NJ Community College Consortium for Workforce and Economic Development and the NJ Business and Industry Association. Expanding the pathways in construction, creating new partnerships with K-12 and 4-year colleges and universities, and expanding the dual education program to include additional partners.
- <u>Construction Center</u> is one of 10 Centers launched this year.
- <u>HCCC is the administrative lead</u> for the Construction Center and works with Rowan College of South Jersey.
- <u>HCCC also is the administrative lead on the Supply Chain</u> <u>and Logistics Center</u> along with Union County College, Rowan College at Burlington and Salem County Community College.



Earn And Learn - Innovative Dual Education Program

- Hudson County Community College (HCCC) is the education partner for International Operating Engineers (IUOE) Local 825 on the Earn and Learn program, a dual education program for apprentices who simultaneously complete an associate degree along with the apprenticeship program.
- HCCC has an agreement with IUOE Local 825 to award apprentices up to 30 credits (of a 60-credit degree) for on-the-job training.
- Developed a new concentration within the Technical Studies degree major tailored to IUOE Local 825. Includes general education and specialized courses in the major.
- Classes are delivered virtually.
- Program began in the spring 2022 semester with 30 students.
- Students take six credits each fall and spring semester and will graduate in five semesters.
- Students incur no debt due to funding from IUOE Local 825 and the NJ Department of Labor and Workforce Development
- The first 18 months of the program is funded by the NJ Department of Labor and Workforce Development NJ PLACE 2.0 grant.





My Contact Information

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In March of 2018, Governor Murphy announced the development of the first **Office of Apprenticeship in New Jersey**, as well as the creation of the **New Jersey Apprenticeship Network**.



OUR MISSION: Building the New Jersey Apprenticeship Network

- The Office of Apprenticeship works closely with USDOL and serves as the onestop shop for employers, nonprofits, secondary, and post-secondary institutions interested in developing apprenticeship opportunities;
- Supports new and expand on existing pre-apprenticeship and USDOL Registered Apprenticeship programs in NJ;
- Establishes pre-apprenticeship and apprenticeship programs in nontraditional high growth occupations/sectors;
- Better align secondary, post-secondary, adult education and occupational training to meet labor demands unique to New Jersey and develop career pathways that lead to economically sustainable wages;
- Help apprentices earn college credits, access robust career counseling, and increase diversity and inclusion in apprenticeship programs;
- Remove economic barriers to training and upskilling through targeted investments.



Growing Apprenticeship in Non-Traditional Sectors (GAINS)

The mission of the GAINS program is to increase statewide capacity for registered apprenticeship opportunities by offsetting training and education costs for businesses in high growth industry clusters.

Grant funds can be used for Related Technical Instruction costs and On-the-Job Wage reimbursement costs.

The GAINS program promotes increased diversity and inclusion in apprenticeship programs:

- Dislocated Workers
- Workers Impacted due to COVID-19
- Underrepresented groups
- People with disabilities
- Veterans
- Recipients of state/federal social programs
- Re-entry population



The **GAINS Program** was designed to establish new or expand existing Registered Apprenticeship Programs in high growth sectors such as:

- Healthcare
- Advanced Manufacturing
- Bio Pharma/Life Sciences
- Information Technology/Cyber Security
- Energy, Utilities and Infrastructure
- Retail, Hospitality and Tourism
- Financial Services/Insurance
- Transportation, Logistics and Distribution
- Renewable Energy
- STEM (Science, Technology, Engineering, and Mathematics)
- Construction & Building Trades
- Public Service



PRE-APPRENTICESHIP in CAREER EDUCATION (PACE)

GOALS

- Create a pipeline of qualified individuals and enable them to transition into sustainable career pathways e.g registered apprenticeship programs.
- Present opportunities to under-represented/disadvantaged populations
- Remove barriers to training and upskilling by supporting funding for supportive services.



Pre-Apprenticeship programs that target high-growth, high-vacancy, or emerging industries are highly encouraged to apply.

Including but not limited to, the following:

Targeted Industry Sectors

- Advanced Manufacturing
- **Bio Pharma/Life Sciences**
- **Energy, Utilities and** Infrastructure
- **Retail, Hospitality and Tourism**
- **Financial Services/Insurance**
- Transportation, Logistics and Distribution

- Information Technology/Cyber Security
- **Offshore Wind/Renewable Energy**
- Healthcare
- STEM (Science, Technology, Engineering, and **Mathematics**)
- **Construction and Building Trades**
- Industries & Occupations Effected by COVID-19



New Jersev

Network

Pre-apprenticeship

Approved Training and Curriculum

Strategies for Long-Term Success Access to Appropriate Support Services, One-Stop connection

Meaningful Hands-on Training that does not displace paid employees.

Facilitated Entry and/or Articulation

ELEMENTS



New Jersey Apprenticeship Network

***Applicants must have an established connection to at least one Registered Apprenticeship program or sponsor.

NJ Pathways Leading Apprentices to <u>a College Education (NJPLACE 2.0)</u>

The mission of the NJPLACE program is to provide funding to organizations that create a degree apprenticeship structure that integrates on-thejob learning with credit-bearing classroom education and the broad knowledge at the heart of the requirements for an associate's, bachelor's, or graduate degree.



Public Works Contractor Registration

Public Works Contractor Registration Act

Mandates all contractors and subcontractors who bid on or engage in the performance of any construction-related public works projects in New Jersey must register with the New Jersey Department of Labor and Workforce Development.

NJOA Employer Engagement Services

- Assist employers/contractors with matching occupational titles from a list of approved occupations
- Provide an overview of the USDOL registration process
- Refer to the USDOL for determination of "approved occupation" and program registration.



New Jersey Apprenticeship: By the Numbers

Current Figures:

- 7663 active apprentices in the state.
- 1083 total registered programs in the state.

Since Governor Murphy took office (January 16, 2018):

- New Jersey has registered *472 new registered apprenticeship programs* (a 77% statewide increase as of January), totaling 1083 statewide.
- Hired 10144 new apprentices.
- Issued 5472 new industry recognized certificates of completion.
- More than doubled the number of women in Registered Apprenticeship programs.
- According to the data from the last quarter for 2017, total apprentices increased by approximately *880* (from 6783) apprentices. This is the highest level in NJ since 2013.
- This growth trend accounts for a 13% increase (net) statewide in active registered apprentices.



NJ Office of Apprenticeship

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Building The 21st Century Work Force

Greg Lalevee Business Manager, International Union of Operating Engineers, Local 825





How Operating Engineers Approach The 21st Century Workforce

- Assess Market Needs
 - Transportation Projects
 - Current & Future Energy Projects
 - Clean Water Projects
- Plan & Develop Appropriate Training
 - Changes in Equipment & Technology
- Establish Technical College

Building & Maintaining our infrastructure

450H

















Thank You





Mileage-Based User Fee Pilot Program



The Opportunity

- Our transportation system is funded mainly from a pay-at-the-pump fuel tax.
- As vehicles go farther on less fuel and some stop using any fuel at all, it will be difficult to maintain a viable transportation system in New Jersey without developing a new financially sustainable approach.





Mileage-Based User Fee Approach

- The Eastern Transportation Coalition needs your help to explore an alternative approach, called a Mileage-Based User Fee (MBUF).
- An MBUF means you pay for the miles you drive







THE EASTERN TRANSPORTATION COALITION MBUF WORK

> Sign up before July 31!



 To better understand if a Mileage-Based User Fee approach could work, the Coalition, in partnership with the NJDOT, is conducting a Pilot Program.

Pilot Program

- Your voice is important, so join the Pilot and provide your feedback.
- The Pilot is free and designed with strict privacy protection measures to safeguard your data.

How to Join





These steps may vary depending on the mileage-reporting option selected.





Contact the Pilot Team











REMINDERS & ANNOUNCEMENTS

NJDOT Tech Transfer Website www.njdottechtransfer.net

NJ STIC Website www.njdottechtransfer.net/nj-stic/

STIC meeting recordings, presentations, and summaries https://www.njdottechtransfer.net/nj-stic-meetings/



ANNOUNCEMENTS & REMINDERS

Innovative Initiatives Survey SHARE with networks Responses due July 15th

STIC Excellence Awards Applications due July 1st NJ Nomination prepared



STIC INCENTIVE PROGRAM

NJDOT Tech Transfer Website https://www.njdottechtransfer.net/new-jersey-stic-requests/

What is the STIC Incentive Program? FY22 Selection Criteria FY22 STIC Fund Eligible Projects/Activities How to Apply List of Projects Online form to electronically submit funding request



REMINDERS & ANNOUNCEMENTS



THANK YOU!

www.NJDOTtechtransfer.net/NJ-STIC (609)963-2242 – Bureau of Research