

Workshop to Broaden the Diversity of the Skilled, Technical Transportation Workforce







WELCOME AND OPENING REMARKS



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FTA Workforce Development Initiative

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Office of Research, Demonstration and Innovation

Workshop to Broaden the Diversity of the Skilled Technical Transportation Workforce

9-18-2024





Federal Transit Administration (FTA) Workforce Development Initiative

FTA Mission: Improve America's communities through public transportation

FTA Vision: A better quality of life for all built on public transportation excellence

FTA Workforce Development Initiative Projects

- Innovative Transit Workforce Development Projects
- Transit Workforce Center (TWC)
- National Transit Institute (NTI)
- High School and Youth Outreach
- CTAA National Center for Applied Transit Technology Data Literacy for Transit Workers

Closely related projects - APTA Standards Program and Transit Cooperative Research Program



First FTA National Workforce Development Strategic Plan

FTA National Transit Workforce Development Strategic Plan 2023 to 2028 (dot.gov):

- 1. Worker Safety & Health
- 2. Workforce Investment
- 3. Recruitment & Outreach
- 4. Retention
- 5. Skills Development & Career Advancement
- 6. Workforce Metrics



FTA and TWC Regional Transit Agency and Department of Labor Partner Networking Events

- FTA will hold convenings in each FTA Region
 - Networking: Introduce transit workforce leaders to DOL workforce partners
 - o Breakout sessions: to start joint planning in key areas
 - Education sessions: share information about DOL workforce programs

Build Momentum and create shared understanding of ways to partner and plan together

Ways to Connect with FTA's Workforce Initiative

- Reach out to the TWC: they provide technical assistance, online statistics, training, resources
- Connect with NTI Training
- Assist with Zero-Emission Maintenance Worker Training: agencies must use 5% of low emission bus funding for workforce development
- Help us expand partnerships: FTA is looking for ways to connect with community colleges, trade schools, high schools to roll out a national transit jobs awareness and outreach campaign
- Participate in the FTA/DOL Convenings

FTA Workforce Development Resources

FTA National Transit Workforce Development Strategic Plan 2023 to 2028

https://www.transit.dot.gov/sites/fta.dot.gov/files/20

23-08/FTA-Report-No-0251-rev.pdf

Transit Workforce Center (TWC)
https://www.transitworkforce.org

National Transit Institute (NTI) https://www.ntionline.com/

Zero Emission Vehicle Fleet Transition
https://www.transit.dot.gov/funding/grants/zero-emission-fleet-transition-plan



Contact

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KEYNOTE: EXPANDING THE TALENT POOL OF THE TRANSPORTATION WORKFORCE



Toks Omishakin

Secretary of Transportation
California State Transportation
Agency





CA Transportation Secretary Toks Omishakin September 18, 2024



INFRASTRUCTURE BILL



Roads and Bridges \$110B



Electric Grid Upgrade \$73B



Passenger and Freight Rail \$66B



Broadband \$65B



Improved
Water
Quality
\$55B



Climate Change Protection \$50B



Airports & Ports

\$42B



Public Transit

\$39B



Environmental Clean-Up

\$21B



Electric Vehicles

\$15B



Transportation Safety

\$11B



Reconnecting Communities

\$1B



Green-workforce-related programs in the IIJA and IRA, by federal agency

Agency	Programs	Funding (in millions)
Department of Energy	23	\$26,450
Department of Treasury	10	***
Department of Transportation	6	\$24,365
Environmental Protection Agency	5	\$9,090
Department of Agriculture	2	\$305
Council on Environmental Quality	2	\$63
Federal Energy Regulatory Commission	1	\$100
Department of the Interior	1	\$150
Department of Commerce	_ 1	\$2,600
Joint Office of Energy and Transportation	1	\$4,230
Department of Transportation & Department of Energy	1	\$300
Department of the Interior & U.S. Department of Agriculture	1	\$7,100
TOTAL	54	\$74,752

Source: Brookings analysis of IIJA and IRA programs

***Note: The 10 programs under the Department of the Treasury are for various tax credits. No specific funding total is available for these programs within the legislation.





Examples of federal, state, and local entities responsible for green workforce development programming within the IIJA and IRA

Federal Entities



- Multiple agencies involved in program design, funding, and regulatory oversight, especially for competitive programs
- Programs typically vary by the type of infrastructure project and activity
- Other key responsibilities include technical assistance, training, research, permitting, and development

State & Local Entities



State Departments of Transportation (DOTs)



State Reg Departments of M Environment



Regional entities, including Metropolitan Planning Organizations (MPOs)



Water Utilities



Energy Utilities



State Energy Offices



Educational institutions



Research Agencies and Institutions

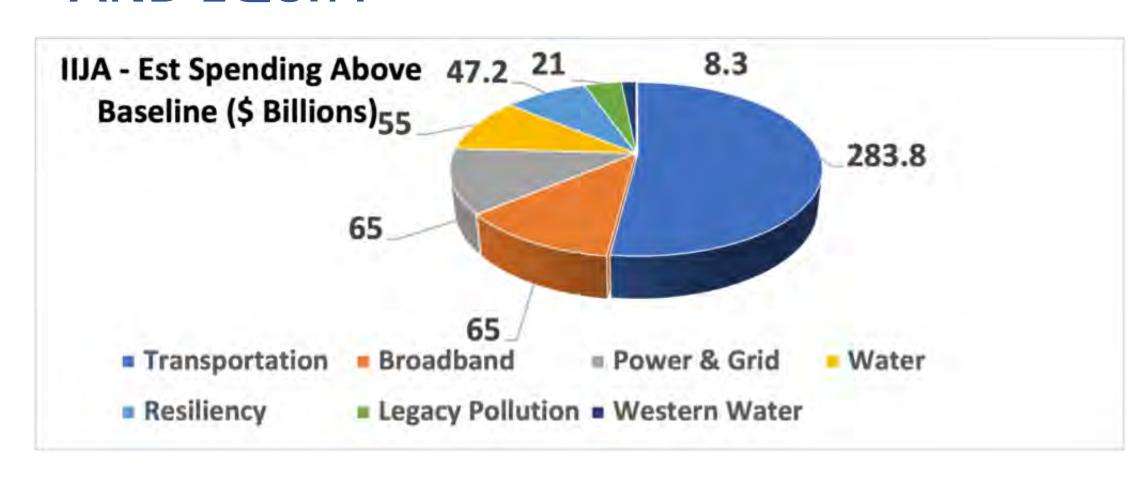


Other Community
Partners

- Numerous state and local entities are responsible for infrastructure project delivery and service provision—and workforce planning
- These entities are eligible for IIJA and IRA funding and serve as major employers
- These entities can also coordinate with community partners (e.g., nonprofit organizations, trade schools).

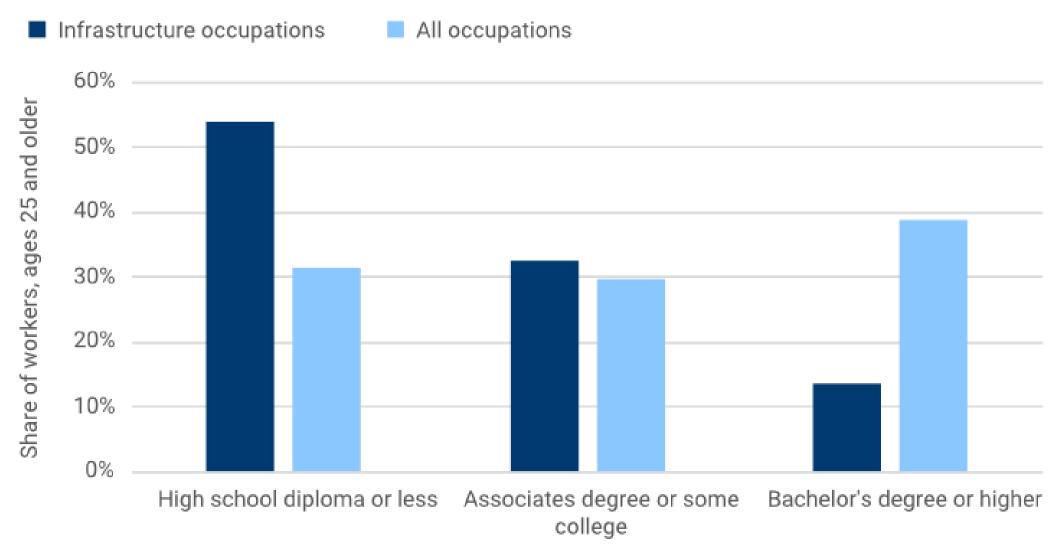


CLIMATE-INFRASTRUCTURE INVESTMENTS BOOSTING JOB QUALITY AND EQUITY





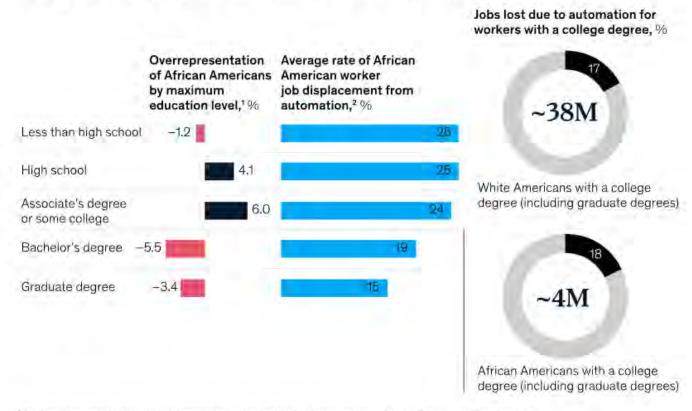
Levels of educational attainment for infrastructure occupations vs. all occupations, 2021





IMPORTANCE OF EDUCATION & TRAINING

Increasing educational attainment can help the African American workforce better prepare for coming automation-driven disruption.



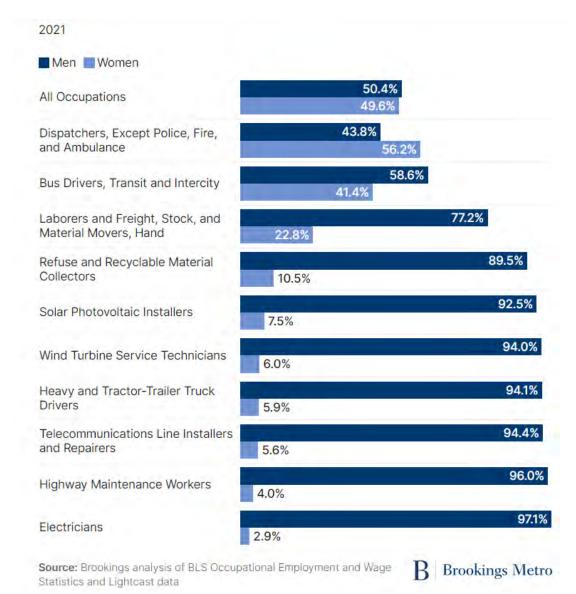
Difference between share of African American population and overall population at each stage of educational achievement.

McKinsey & Company

[§] Average midpoint automation displacement (ate of jobs per minimum education requirement, Source: Bureau of Labor Statistics; US Census; Mckinsey Global Instituté analysis



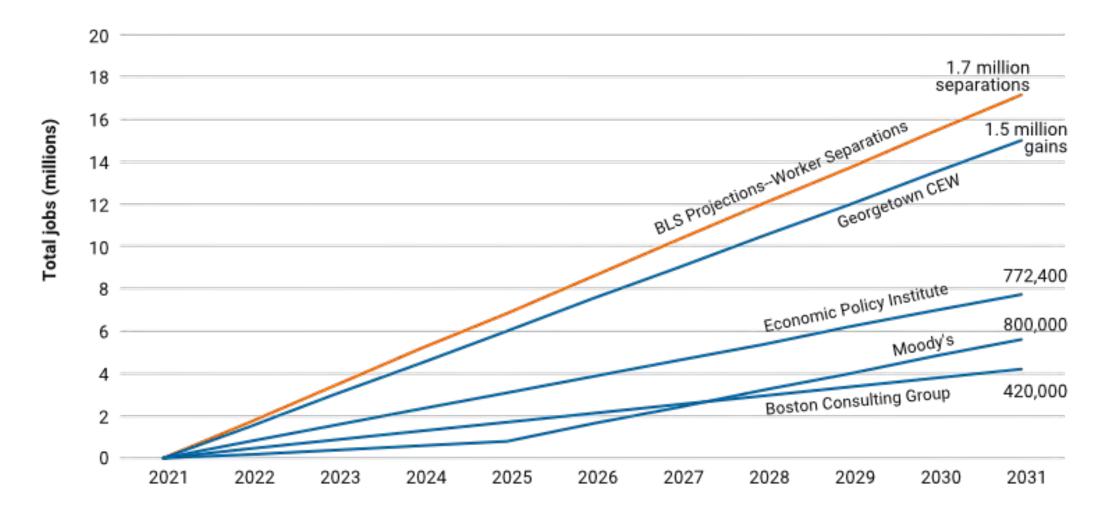
LACK OF GENDER DIVERSITY IN SELECTED INFRASTRUCTURE OCCUPATIONS





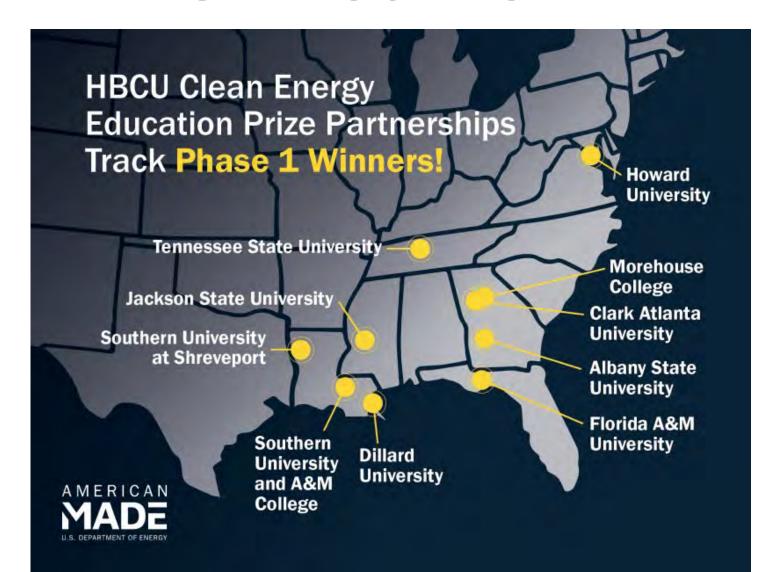
Estimated new infrastructure job creation vs. infrastructure jobs that need to be filled due to worker separations, 2021 to 2031

Estimated peak annual job gain by various sources
 Estimated annual job separations





DEPARTMENT OF ENERGY (DOE) HBCU CLEAN ENERGY EDUCATION PRIZE









SAFETY

Nearly 10% of all the year 2021 traffic deaths in the U.S. occurred on California roadways. Fatalities for Active Transportation users are also at a 16-year high. By embedding the Safe System approach into our investments, planning, design and innovation, we will be able to achieve better outcomes on this urgent responsibility.



EQUITY

Historically, transportation decisions prioritized movement of vehicles over the movement of people. We also built a transportation system that in some cases had detrimental impacts in underserved communities. We aim to create an equitable and accessible transportation network and to provide equitable opportunities for all people.



CLIMATE ACTION

Nearly half of all climate-changing pollution in California comes from the transportation sector, and this demands our action for a cleaner future for all Californians. We must continue making our carbon footprint smaller by investing in a more multimodal system, embracing smarter land use development and utilizing innovation around zero emission vehicles.



ECONOMIC PROSPERITY

Transportation policy done right creates well-paying jobs, provides alfordable options, supports housing opportunities and powers our economy. This must be our focus as we strive for all people to be on equal footing, resulting in more thriving, robust communities.

















CALSTA'S CORE FOUR **PRIORITIES**

- SAFETY
- EQUITY
- CLIMATE ACTION
- ECONOMIC PROSPERITY



CALTRANS ENGAGEMENT



Come join Caltrans for an information session

This information session is ideal for anyone who is looking for a part-time student assistant position or for a full-time position with the State of California. We will go over the state hiring process which includes creating an account, taking an exam and applying for jobs!

We offer many different opportunities statewide from entry level to managerial positions.

We have opportunities in various fields including:

- Administration
- Engineering
- Environmental
- Equipment
- Information Technology
- Legal
- Maintenance
- Planning
- Surveys

Date: August 13, 2020

Time: 2:00 PM

Register via Zoom: https://tinyurl.com/CalTransCareers

- Engagement includes K-12, High Schools, Community Colleges, CSUs, non-traditional and trade colleges, community programs, professional organizations and state partners.
- Commitment to meeting workforce talent pipeline needs—fostering relationships. educating potential talent and tapping into underrepresented groups











WORKFORCE DEVELOPMENT



- Must explore non-traditional methods to adapt to/meet industry's needs; search/develop talent innovatively; critical to tap into more diverse talent pool:
- Handshake platform connects us to educational institutions including MSIs and HBUs
- Career Compass helps navigate complex application process
- Launching Career Center to host workshops & forums; provides community access to resources, computers to apply for state jobs
- High-Speed Rail apprenticeship
- Governor Newsom signed EO N-11-23: Master Plan for Career Education



LEVERAGING OPPORTUNITIES TO TAP INTO TALENT



G Caltrans

CALTRANS TAKES ATLANTA BY STORM AT NSBE'S NATIONAL CONVENTION

- 15,000 attendees at NSBE 50th Annual Convention
- On-site Career

 Fair excellent
 opportunity to
 tap into talent &
 network, recruit,
 participate in
 knowledge
 sharing for hiring
 strategies



CONTINUOUS TRAINING





- Longevity & success of partnerships important element of strength of workforce
- Must secure funding & additional resources to meet our future talent needs effectively
- Great pride in our apprenticeship programs for Heavy Equipment Mechanics and Structural Steel Painters



STEM ACCESS

BROADBAND ACCESS

 Middle-Mile Broadband Initiative: helping improve access to education, employment opportunities, health services



STEM CORE Employer Partner: Grattans

How is Cal Trans involved in working with the STEM Core program? We take in highly motivated students and place them in various fields within Caltrans to get hands on experience in Transportation Engineering and what we do in Caltrans. We feel that STEM fields can seem intimidating and that practical exposure to these fields helps students see how their studies correlate to the professional world. The enthusiasm and energy from the students is invigorating.

Words of advice to STEM Core participants?

Don't be daunted by anything in the STEM field and try it out. You'll be surprised at how much you know and how much you can apply. This can open your mind to what is out there and open your potential.

-Anthony Ng, P.E. - Chief Caltrans District 7 – Division of Design







PARTNERSHIPS

UC ITS Meets with Caltrans



- Partnerships are the Golden Key to our work
- Achieve greater success together
- Provide opportunities, collaboration, support; share resources & knowledge

Tell me and I forget.
Teach me and I may remember.
Involve me and I learn.

-Benjamin Franklin



Thank you!







TRANSPORTATION RESEARCH BOARD

Panel 1:

Recruitment of Diverse Populations and Addressing Employment Barriers





Antonne Henshaw Program Coordinator, Rutgers University CEO and Founder, Transformative Justice Initiative



Krystalyn O'Leary Bus Operations Program Manager Golden Gate Bridge, Highway and Transportation District











SONOMA-MARIN BUS OPERATOR PRE-APPRENTICESHIP PROGRAM



Rules, Policy and Industrial Relations Committee September 18, 2024







PROGRAM BACKGROUND



Santa Rosa Junior College's Sonoma-Marin Bus Operator Pre-Apprenticeship Program (PA) will provide a pathway to family-sustaining career opportunities to residents in Sonoma and Marin Counties.

st PA program
linked to an
apprenticeship
program
CA transit industry



Industry-specific vocabulary, workplace soft skills, and writing are among the critical skill needs that have been developed for classes

Pre-apprenticeship Program with Santa Rosa Junior College

- Outreach Specialist to leverage strong communities ties & actively advocate/recruit for GGT Bus Operator positions, especially in Priority Populations.
 - Also serves as personal support for students/pre-apprentices
 - Coordinates closely with GGT staff & ATU on student performance and/or if 1:1 support needed from Mentors, GGT Staff, etc.
- 12-week program offered by SRJC's Adult Education Department (includes Practicum & Shadow Days)
 - Virtual classes: workplace soft skills, customer service, communication, collaboration, self-advocacy, basic computer skills; bilingual offerings support ESL students
 - · Practicum will incorporate application and interview process.
 - Two onsite Shadow Days at GGT contextualize classroom learning, provide work environment exposure
 - Mentors & ATU Leadership help shape & deliver curriculum
- Seamless connection to full-time employment & the Bus Coach Operator Apprenticeship Program with College of Marin
- Signing bonus (\$1,000 upon completion or pre-apprenticeship)







Data Collection on "Front Door" Challenges

- Approximately 67% of applicants didn't/ couldn't submit a completed application.
 - Asian/Native Hawaiian/Pacific Islanders (AAPI) struggled the most. Hispanic applicants a close second.
- Of the 33% of applicants with complete applications, 40% of them failed the written skills test required for gauging business skills.
 - AAPI and Hispanic applicants appeared to struggle the most.
- At this point, of the total, original applicants (including complete & incomplete applications), only 20% of them proceeded to the interview phase.
- Approximately 16% of the total, original applicants were ultimately offered employment as Bus Operators.
- Majority of applicants live in Priority Populations (PPs) / Disadvantaged Communities, many of which live 1-2.5 hours away from GGT facilities. Could benefit from more focused recruiting in local PPs closer to work.

Mitigating Employment Barriers & Commitment to Equity

Addressing employment barriers:

- Completion of application process as graduation requirement part of SRJC program (Practicum)
- GGT written skills test waived with completion of program SRJC courses & GGT Shadow Days should ensure candidates are prepared to enter the training/apprenticeship program
- Interview process folded into 2nd Shadow Day

GGT Commitment to Racial Equity/Justice & Inclusion:

- Focused recruiting in Priority Populations
- Pathway to union-represented employment, career stability, and familysustaining benefits through investments & support from local colleges, Union, GGT (employer), local colleges, and Mentors
- Building skills & creating educational opportunities for those from disadvantaged/underserved communities
- Bilingual instruction to create a more inclusive learning environment







Reevaluate & Revise Minimum Qualifications

Reevaluated Bus Operator position minimum qualifications, also influenced by our commitment to racial equity/justice. Changed requirements related to:

- High school diploma waived for pre-apprentices upon completion of program: SRJC will
 offer an alternative test for reading and writing competencies.
- Driving Experience: Must be a licensed driver for at least three (3) years upon completion of the pre-apprenticeship program. Minimum Age (in this case) = 19 years. (Regular standard is 7 years as licensed driver.)
- Moving violations: Applicants with more than two (2) moving violations within the last three (3) years will be reviewed on a case by case basis and such violations may be cause for non-selection. (Prior standard: No more than two (2) moving violations within the last three (3) years. No exceptions.)
- Other violations, citations, and/or accidents will be reviewed on a case by case basis and may be cause for non-selection.

PROGRAM REQUIRED COURSES

- ADLTED 766.2: Lifelong Learning & Professionalism Develop life-long skills, problem-solving skills, and professionalism for success in the workplace.
- ADLTED 766.3: Communication & Customer Service Focus on communication, customer service, and non-conflict resolution for success in the workplace.
- ADLTED 766.5: Transition to Careers Practicum Understanding of recruiting, onboarding, training, and management practices of the industry and public employers; workflow; and professional expectations.





Wraparound Support Programs

Partnership with Canal Alliance of San Rafael, CA

- 2-years of wraparound services provided to clients upon completion of COM Apprenticeship Program: ESL, career support, transportation, rental assistance, etc.
- Feedback loops/ collaboration channel to support employee success ONLY with employee consent.
- Canal Alliance helps GGT staff better understand and respond to employee needs with empathy
- Will check-in with Bus Operators/ clients on job performance, attendance, etc.

Bus Operator Mentor Program

- Collaboration channel between Canal Alliance Client
- 1:1 meetings and ride-a-longs between Mentor & Mentees to create forums for career feedback and advice
- 6th course in Apprenticeship Program provides group forum for Mentors & Apprentices for problem-solving & learning





Contact Information

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- Bus Operations Program Manager, Golden Gate Transit

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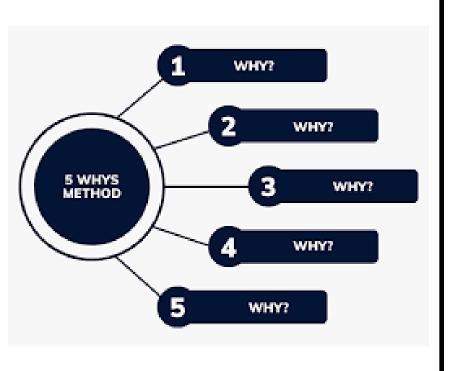
Jorge Quezada Chief Inclusion Officer and VP of People & Culture Granite Construction

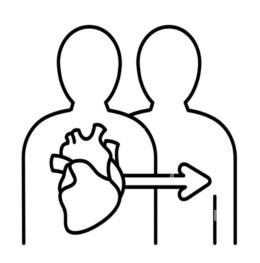


NASEM Workshop to Broaden the Diversity of the Skilled, Technical Transportation Workforce Recruitment of Diverse Populations and Addressing Employment Barriers

Jorge Quezada – Chief Inclusion Officer









Inclusive Diversity (ID) Engagement Portfolio



Ambassador Program

Regional Ambassador partnership to foster Inclusive Diversity awareness and participation

Inclusive Leadership Practice

Monthly Executive Leadership meetings to discuss and review ID initiatives

Employee Resource Groups

Employee-led groups to support, grow and develop their members

Inclusive Engagements

External partnerships, events, conferences, articles, awards and relationships

Inclusive Diversity Newsletter
Monthly summary of all things ID

Granite Radio

Monthly radio show to share, inform, celebrate and honor our team members



Community Hour

Quarterly inclusive diversity discussion calls with all Granite employees



Inclusive Diversity Learning

Complete learning suite of courses, webinars and weekly micro learnings on various ID topics

ID Questions Portal

Safe space to ask questions relating to any and all things Inclusive Diversity

Podcasts

Inclusive Conversations (Internal) and Construction DEI Talks (external) to amplify voices of employees, businesses, subject matter experts, and our communities

ID Insiders, Yammer & Granite App

Company intranet site, social media page and mobile app presence

