TRB Snap Search: Workforce

TRB's involvement in research on Workforce from 2021-2023

The Transportation Research Board (TRB) provides innovative, research-based solutions to improve how we move. TRB is part of the National Academies of Sciences, Engineering, and Medicine, an independent, non-profit institution that provides objective advice on scientific, engineering, and medical issues.

A resource to the nation and to the transportation community worldwide, TRB provides an extensive portfolio of services:
- Opportunities for information exchange on current transportation research and practice
- Management of cooperative research and other research programs
- Analyses of national transportation policy issues and guidance on federal and other research programs
- Publications and access to research information from around the world

TRB Research

TRID – The world's largest and most comprehensive bibliographic source on all modes and disciplines of transportation
- Click here to view search results on TRB published research on Workforce within the past two years.

Specialty Report
- Critical Issues in Transportation for 2024 and Beyond
- Critical Issues in Transportation 2019
- COVID-19 Addendum to Critical Issues in Transportation
- Racial Equity Addendum to Critical Issues in Transportation
- Transportation Insights 1 – Systemic Inequality in the Airport Industry: Exploring the Racial Divide

Recent Reports & Publications

- IDEA Safety Projects
  - Report 43 - Augmenting Reality for Safer Inspections of Railroad Infrastructure and Operations

- Airport Cooperative Research Program (ACRP)
  - Report 246 - Airside Operations Safety: Understanding the Effects of Human Factors
  - Report 232 - Playbook for Cultivating Talent in the Airport Environment
  - Report 230 - Enhancing Academic Programs to Prepare Future Airport Industry Professionals
  - Report 229 - Airport Collaborative Decision Making (ACDM) to Manage Adverse Conditions
  - Synthesis 126 - Impacts of COVID-19 on Airport Work Models and Strategies
  - Web-Only Document 52 - Command-Level Decision Making for Transportation Emergency Managers

- Behavioral Traffic Safety Cooperative Research Program (BTSCRP)
  - Web-Only Document 1 - Developing Employer-Based Behavioral Traffic Safety Programs for Drivers in the Workplace
  - Web-Only Document 3 - Developing Employer-Based Behavioral Traffic Safety Programs for Drivers in the Workplace

- National Cooperative Highway Research Program (NCHRP)
  - NCHRP 20-44(30) - Measuring the Effectiveness of Public Involvement at Five State Departments of Transportation: Implementation of the NCHRP Research Report 905 Toolkit
  - Report 1072 - Telecommuting, Remote Work, and Hybrid Schedules: Managing the Shift to a Flexible Work Future
  - Report 1059 - Access to Jobs, Economic Opportunities, and Education in Rural Areas
  - Report 1027 - Guide to Recruiting, Developing, and Retaining Transportation Infrastructure Construction Inspectors
- Report 1008 - Attracting, Retaining, and Developing the 2030 Transportation Workforce: Design, Construction, and Maintenance
- Report 980 - Attracting, Retaining, and Developing the Transportation Workforce: Transportation Planners
- Report 963 - A Pandemic Playbook for Transportation Agencies (TCRP Report 225)
- Synthesis 608 - Practices to Motivate Safe Behaviors with Highway Construction and Maintenance Crews
- Web-Only Document 337 - Training and Certification of Construction Inspectors for Transportation Infrastructure

- **Transit Cooperative Research Program (TCRP)**
  - IDEA Report 88 - Evaluation of an Automatic, Individual Computer-Based Driver Education and Training Program
  - Report 232 - The Impacts of Vehicle Automation on the Public Transportation Workforce
  - Report 228 - Resource Guide for Improving Diversity and Inclusion Programs for the Public Transportation Industry
  - Report 225 - A Pandemic Playbook for Transportation Agencies (NCHRP Report 963)
  - Synthesis of Transit Practice 167 - Partnerships for Equitable Pandemic Response and Recovery

**Milestone Reports**

**Current & Upcoming Projects**

- **Current Projects**
  - ACRP 09-22 - Guidance for Small Airports on Safe Maintenance of Airfield Electrical Systems
  - ACRP 02-94 - Update ACRP WebResource 4: Airport Air Quality Resource Library
  - ACRP 02-99 - Incorporating Environmental Justice and Equity Principles and Data into Airport Decision-Making
  - ACRP 02-101 - Environmental Stewardship and Compliance Training for Airport Employees
  - ACRP 06-09 - Equitable Workforce Outcomes: A Study of Women and Minority Representation at Airports
  - ACRP 09-22 - Guidance for Small Airports on Safe Maintenance of Airfield Electrical Systems
  - ACRP Synthesis 11-03/Topic S06-08 - Exploring Airport Employee Commuting and Transportation Needs
  - ACRP 11-05 - Tactical Initiatives from the ACRP Strategic Plan
  - ACRP Synthesis 11-03/Topic S06-07 - Impacts of COVID to Airport Work Models and Strategies
  - NCHRP 08-152 - Strategies for Improving Diversity, Equity, and Inclusion in the Transportation Planning Profession
  - NCHRP 20-65/Task 80 - Capacity Building Options for DOT Transit Staff
  - NCHRP 20-102(20) - Preparing the Transportation Workforce for the Deployment of Emerging Technology
  - NCHRP 20-105B - Development of Course Outlines for Ahead of the Curve Training Program: Mastering the Management of Transportation Research
  - NCHRP 23-13(06) - Assessing the Equity and Workforce Mobility Implications of the Expansion of E-commerce and Direct-to-Consumer Delivery Services
  - NCHRP Synthesis 20-05/Topic 54-20 - Advancing Gender Equity in the DOT Workforce
  - TCRP C-25 - Bus Operator Barrier Design
  - TCRP F-28 - Practitioner’s Guide to Bus Operator Workforce Management
  - TCRP F-29 - Mental Health, Wellness, and Resilience for Transit System Workers
  - TCRP F-30 - Guide for Protecting Transportation Employees and the Traveling Public from Airborne Diseases
  - TCRP G-17 - Assessing Lifecycle and Human Costs of Bus Operator Workstation Design and Components

- **Upcoming Projects**
  - ACRP 01-53 - Review and Update of ACRP Administration and Human Resources Products
  - ACRP 04-29 - Transportation Emergency Response Application (TERA): Migration Options Beyond 2020
- ACRP 04-34 - Best Practices for Building and Improving an Aircraft Rescue and Firefighting Program
- ACRP 06-09 - Equitable Workforce Outcomes: A Study of Women and Minority Representation at Airports
- ACRP 06-10 - Guidance for Automation to Optimize Airport Efficiency
- ACRP 11-01/Topic 15-03 - Legal Impacts to Airports from State Legalization of Marijuana
- NCHRP 08-159 - How to Assess and Address Equity of Access to Essential Goods and Services
- NCHRP 20-24(132) - Understanding Knowledge Management in Context with Other Organizational Practices
- NCHRP 20-44(54) - Implementing An Emergency Management Playbook for State Transportation Agencies
- NCHRP 20-102(20) - Preparing the Transportation Workforce for the Deployment of Emerging Technology
- NCHRP 20-121A - Countering Human Trafficking: A Toolkit for State DOTs
- NCHRP 20-44(51) - Training on AASHTO Context Classifications
- NCHRP 23-13(03) - Guide on Truck Rest and Service Areas for Critical Supply Chain Delivery
- NCHRP Synthesis 20-05/Topic 15-12 - Bridge Construction Inspection Training Resources
- NCHRP Synthesis 20-05/Topic 15-55 - Tracking Safety Leading Indicators to Improve DOT Employee Safety Performance
- NCHRP Synthesis 20-05/Topic 55-06 - State DOT Certification Programs for Materials Testing Personnel
- TCRP A-36A - Transportation Emergency Response Application (TERA): Migration Options Beyond 2020
- TCRP F-31 - Modernizing Transit Station Staffing Management
- TCRP Synthesis J-07/Topic SA-62 - Planning and Operations Initiatives to Support Nighttime Off-Peak Transit Ridership

Reports from the National Academies Press on Workforce

- Substance Misuse Programs in Commercial Aviation: Safety First
- Mentoring of Black Graduate and Medical Students, Postdoctoral Scholars, and Early-Career Faculty in Science, Engineering, and Medicine
- Advancing Diversity, Equity, Inclusion, and Accessibility in the Leadership of Competed Space Missions
- Advancing Antiracism, Diversity, Equity, and Inclusion in STEMM Organizations
- Transforming Trajectories for Women of Color in Tech
- The National Plan for Health Workforce Well-Being
- Understanding the Aging Workforce: Defining a Research Agenda
- Improving Diversity of the Genomics Workforce
- Materials Science and Engineering in a Post-Pandemic World: A DoD Perspective
- Imagining the Future of Undergraduate STEM Education
- Addressing the Impact of COVID-19 on the Early Care and Education Sector
- Looking Ahead at the Cybersecurity Workforce at the Federal Aviation Administration
- Meeting Regional STEMM Workforce Needs in the Wake of COVID-19
- Dialogue About the Workforce for Population Health Improvement
- Empowering the Defense Acquisition Workforce to Improve Mission Outcomes Using Data Science
- Creating the Future Workforce in Food, Agriculture, and Natural Resources
- Strengthening U.S. Air Force Human Capital Management
- Impact of COVID-19 on the Careers of Women in Academic Sciences, Engineering, and Medicine
- Measuring Alternative Work Arrangements for Research and Policy
- The Inclusion of Women in STEM in Kuwait and the United States
- Building Capacity for Teaching Engineering in K-12 Education
- Promising Practices for Addressing the Underrepresentation of Women in Science, Engineering, and Medicine
- Strengthening U.S. Air Force Human Capital Management

Committees & Panels

Sign-up to be a committee "Friend"

**TRB Standing Committees** – Search by transportation mode and committee topic

- **AJE15** – Workforce Development and Organizational Excellence
- **AKM10** - Production and Use of Asphalt
- **AKR10** – Maintenance and Operations Management
- **AME20** - Women and Gender in Transportation
- **AP010** – Transit Management and Performance
- **AW040** - Marine Safety and Human Factors
**Task Forces** - Search for *task force* under committee here

**CRP Panels**
- **D0225** - Workforce 2030: Recruiting and Training the Next Generation Transportation Construction Workforce
- **D1427** - Guidelines for a Comprehensive Preventive Maintenance Plan for Tunnel Owners and Operators
- **D201022** - Workforce Capability Strategies for State and Local Agencies
- **D231302** - Employee Safety during COVID-19
- **D231306** - Assessing the Equity and Workforce Mobility Implications of the Expansion of E-Commerce and Direct-to-Consumer Delivery Services
- **DA0605** - Guidance for Diversity in Airport Businesses Contracting and Workforce Diversity Programs
- **DA0609** - Quantifying and Understanding Women and Minority Airport Employee Populations to Track Progress
- **DA02101** - Airport Employee Onboarding Environmental Guidebook
- **SAS0608** – Airport Practices for Accommodating Employee Transportation and Parking Needs
- **SN5420** - Practices to Promote Gender Equity in the DOT Workforce
- **TF25** – Improving the Health and Safety of the Transit Workforce
- **TF28** - Practitioner’s Guide to Bus Operator Workforce Management
- **TF30** - Ensuring the Health and Safety of Transportation System Operators and Others in the Transportation Workforce
- **TG17** - Assessing Lifecycle and Human Costs of Bus Operator Workstation Design and Components

**Councils**
- **A001C** – Young Members Coordinating Council

**Recent and Upcoming Events**

**Upcoming TRB Conferences** – Use left hand menu to filter events

**Upcoming Events** – In the Upcoming Events tab under Types, choose what event you are interested in, search titles by keyword

**Past Events** - In the Past Events tab under Types, choose what event you are interested in, search titles by keyword

- **International Conference on Road Weather and Winter Maintenance**  
  *May 9-10, 2023*  
  *Washington, D.C.*

- **National Aviation System Planning Symposium**  
  *May 15-18, 2023*  
  *Irving, CA*

- **Innovations in Travel Analysis and Planning Conference**  
  *June 4-6, 2023*  
  *Indianapolis, IN*

- **Marine Transportation System Innovative Science and Technologies Toward Greater Sustainability**  
  *June 19-22, 2023*  
  *Washington, D.C.*

- **National Conference on Transportation Asset Management**  
  *July 8-11, 2023*  
  *Boston, MA*

**Past Webinars**

- **TRB’s 2023 Automated Road Transportation Symposium**  
  *July 9-13, 2023*  
  *San Francisco, CA*

- **TRB International Conference on Low Volume Roads**  
  *July 23-26, 2023*  
  *Cedar Rapids, IA*
TRB Webinar: Bus Operators—New Strategies for Maintaining the Workforce
March 27, 2023

TRB Webinar: Career Series #3 – Transportation Equity: Community-Building in Action
March 22, 2023

TRB Webinar: Career Series #2 – Sustainable Mobility: New and Expanding Opportunities
February 22, 2023

TRB Webinar: How DOTs Manage to Keep Maintenance Workers Safe
February 9, 2023

TRB Webinar: Career Series #1 – The Future Transportation Workforce is Happening Now!
February 8, 2023

TRB’s Transportation Research Information Services (TRIS)

TRIS includes the TRB Library and the TRIS Databases (listed below) which are available free on TRB’s website.

The TRB Library provides information services to TRB staff, sponsors, TRB Committee members and panels and researchers. Access to the TRB Library is a benefit to TRB sponsors and TRB committee members.

In cooperation with your State DOT Library or Information Service, the TRB Library provides:

- Reference and research assistance
- Literature searches
- Articles for TRB Committee work

The TRB Library provides training on effective and efficient use of the following TRIS resources:

- Transportation Research International Documentation (TRID) – trid.trb.org - The world's largest and most comprehensive bibliographic source on all modes and disciplines of transportation
- Transportation Research Thesaurus (TRT) – trt.trb.org - A tool to improve the indexing and retrieval of transportation information.
- Research in Progress (RIP) Database – rip.trb.org - Current or recently completed transportation research projects
- Publications Index (PubsIndex) Database – pubsindex.trb.org - The papers, articles and reports published by the Transportation Research Board, Strategic Highway Research Programs or the Marine Board

Contact or Questions: TRBLibrary@nas.edu