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
  - Transportation Insights 3 - The Future of Airport Finance
  - 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 20-105B - Development of Course Outlines for Ahead of the Curve Training Program: Mastering the Management of Transportation Research
  - NCHRP 20-65/Task 80 - Capacity Building Options for DOT Transit Staff
  - 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 618 - Advancing Gender Equity in the DOT Workforce
- 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 247 - Assessing Lifecycle and Human Costs of Bus Operator Workstation Design and Components
  - Report 245 - Mental Health, Wellness, and Resilience for Transit System Workers (Prepublication)
  - 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

Recently Completed/Pending Publication
  - ACRP 09-22 - Guidance for Small Airports on Safe Maintenance of Airfield Electrical Systems
  - ACRP 02-99 - Incorporating Environmental Justice and Equity Principles and Data into Airport Decision-Making
  - TCRP F-30 - Guide for Protecting Transportation Employees and the Traveling Public from Airborne Diseases
  - TCRP Report 249 – Bus Operator Barrier Design

Current & Upcoming Projects
  - Current Projects
    - ACRP 01-53 - Review and Update of ACRP Administration and Human Resources Products
    - ACRP 02-94 - Update ACRP WebResource 4: Airport Air Quality Resource Library
    - 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
    - NCHRP 08-159 - How to Assess and Address Equity of Access to Essential Goods and Services
    - ACRP 11-01/Topic 15-03 - Legal Impacts to Airports from State Legalization of Marijuana
    - ACRP Synthesis 11-03/Topic S06-08 - Exploring Airport Employee Commuting and Transportation Needs
    - ACRP 11-05 - Tactical Initiatives from the ACRP Strategic Plan
    - NCHRP 08-152 - Strategies for Improving Diversity, Equity, and Inclusion in the Transportation Planning Profession
    - NCHRP 20-44(51) - Developing Training Materials to Implement Context Classifications
    - 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 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 55-06 - State DOT Certification Programs for Materials Sampling and Testing Personnel
    - NCHRP Synthesis 20-05/Topic 15-12 - Bridge Construction Inspection Training Resources and Practices
- **NCHRP Synthesis 20-05/Topic 55-15** - Tracking Safety Leading Indicators to Improve DOT Employee Safety Performance
- **NCHRP Synthesis 20-05/Topic 15-55** - Tracking Safety Leading Indicators to Improve DOT Employee Safety Performance
- **TCRP E-15** - Air Quality Inside Buses
- **TCRP G-17** - Assessing Lifecycle and Human Costs of Bus Operator Workstation Design and Components
- **TCRP Synthesis J-07/Topic SA-62** - Planning and Operations Initiatives to Support Nighttime Off-Peak Transit Ridership

**Upcoming Projects**
- **ACRP 03-75** - Preparing for Hydrogen at Airports
- **ACRP 04-29** - Transportation Emergency Response Application (TERA): Migration Options Beyond 2020
- **ACRP 04-31** - Providing Adequate and Balanced Trainer Facilities for Required and Recurrent Training for Airport Firefighters
- **ACRP 04-34** - Best Practices for Building Maintaining, and Improving ARFF Programs
- **ACRP 06-10** - Enhancing Airport Workforce Efficiency through Automation
- **ACRP 11-04B** - ACRP Academic Engagement Programs
- **BTSCRPs BTS-30** - Engaging Underserved Communities and Populations in Child Passenger Safety
- **BTSCRPs BTS-40** - Workplace-Based Approaches to Improve Driver Behavior and Reduce Crashes
- **NCHRP 08-183** - Resource to Support Volunteer Driver Programs in Rural and Low-Density Areas
- **NCHRP 20-24(132)** - Understanding Knowledge Management in Context with Other Organizational Practices
- **NCHRP 20-24(146)** - Guide to Supporting and Sustaining Transportation Grant Programs for Local Governments and Tribes
- **NCHRP 20-44(54)** - Training Program for the Emergency Management Playbook
- **NCHRP 20-44(55)** - Workshops and Peer Exchanges on Pollinator Habitat Conservation Along Roadways
- **NCHRP 20-44(56)** - Implementation Project to Measure and Communicate the Value of Access Management
- **NCHRP 23-13(03)** - Guide on Truck Rest and Service Areas for Critical Supply Chain Delivery
- **NCHRP 23-39** - A Guide to Developing Construction Inspector Career Path Programs
- **NCHRP 23-40** - Optimizing Maintenance Technician Staffing Levels for Highway Maintenance Fleets
- **NCHRP 23-42** - Scoping Study to Identify Curriculum Development Needs for Workforce Development in Transportation Asset Management
- **NCHRP 23-46** - Impact and Opportunity of Artificial Intelligence (AI) and Automation on the Transportation Workforce: Exploring Skill Gaps, Competency Requirements, Mindset Shifts, and Transportation Agency Strategies
- **NCHRP Synthesis 20-05/Topic 56-01** - Specialized Training and Knowledge Transfer Practices for Employee Safety
- **NCHRP Synthesis 20-05/Topic 56-09** - Staffing Models for Transportation Systems Management and Operations (TSMO)
- **NCHRP Synthesis 20-05/Topic 56-10** - Practices to Reduce Serious Injuries and Fatalities (SIFs) with Department of Transportation Employees
- **NCHRP Synthesis 20-05/Topic 56-14** - State DOT Training Programs to Comply with NPDES Stormwater Permit Requirements
- **TCRP A-36A** - Transportation Emergency Response Application (TERA): Migration Options Beyond 2020
- **TCRP A-50** - Practical Considerations for Developing Transition Plans to Zero-Emission Fleets
- **TCRP D-23** - Manual for Planning and Constructing a Small, Rural, or Tribal Transit Facility
- **TCRP F-31** - Modernizing Transit Station Staffing Approaches
- **TCRP F-32** - Enhancing Transit Organizational Culture to Improve Employee Psychological Health and Safety, Recruitment, and Retention
- **TCRP F-33** - Recruiting, Developing, and Retaining Individuals with Disabilities for Careers in Public Transportation
- **TCRP F-34** - CDL Requirements for Local and Regional Transit Drivers Needs Study
- **TCRP Synthesis J-07/Topic SH-24** - Impacts of Fentanyl and Substance Use on Transit
Reports from the National Academies Press on Workforce

- National Plan for Health Workforce Well-Being
- Preparing the Future Workforce in Drug Research and Development
- Building Capacity for the U.S. Mineral Resources Workforce
- Developing a Multidisciplinary and Multispecialty Workforce for Patients with Cancer, from Diagnosis to Survivorship: Proceedings of a Workshop (Proceedings)
- Disrupting Ableism and Advancing STEM: Promoting the Success of People with Disabilities in the STEM Workforce (Proceedings of a Workshop)
- 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
- 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

Committees & Panels

Sign-up to be a committee "Friend”

TRB Standing Committees – Search by transportation mode and committee topic
- A1E15 – 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 – Select CRP Panel and Synthesis Panel and search by transportation mode and topic
- D0225 - Workforce 2030: Recruiting and Training the Next Generation Transportation Construction Workforce
- D08159 - NCHRP - Understand How Accessibility to Employment, Health Care, Education, and Other Vital Needs Varies for Different Population Groups in Different Settings, and Methods for Effectively Assessing Mobility and Accessibility Needs
- D1427 - Guidelines for a Comprehensive Preventive Maintenance Plan for Tunnel Owners and Operators
- D2010220 - Workforce Capability Strategies for State and Local Agencies
- D2010220 - 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
- D2342 - NCHRP - Scoping Study to Identify Curriculum Development Needs for Workforce Development in Transportation Asset Management
- D2346 - NCHRP - Impact and Opportunity of Artificial Intelligence (AI) and Automation on the Transportation Workforce: Exploring Skill Gaps, Competency Requirements, Mindset Shifts, and Transportation Agency Strategies
- DA0605 - ACRP - Guidance for Diversity in Airport Businesses Contracting and Workforce Diversity Programs
- DA0609 - Quantifying and Understanding Women and Minority Airport Employee Populations to Track Progress
Recent and Upcoming Events

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

**TRB’s 2nd Conference on Advancing Transportation Equity**  
*July 15-18, 2024*  
*Baltimore, MD*

**TRB’s International Conference on Women and Gender in Transportation**  
*Sept 9-11, 2024*  
*Irvine, CA*

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*

**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*

Past Webinars

**TRB Webinar: Bus Operators—New Strategies for Maintaining the Workforce**
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