TRB Snap Search: Workforce

TRB's involvement in research on Workforce from 2020-2022

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 2019
- COVID-19 Addendum to Critical Issues in Transportation
- Racial Equity Addendum to Critical Issues in Transportation

Recent Reports & Publications

- **Airport Cooperative Research Program (ACRP)**
  - 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
  - Report 217 - Guidance for Diversity in Airport Business Contracting and Workforce Programs
  - Synthesis 113 - Airport Workforce Programs Supporting Employee Well-Being
  - Synthesis 112 - Airport Operations Training at Small Airports
  - Web-Only Document 49 - Research Roadmap on Airport Administration & Human Resource Issues

- **IDEA Safety Program**
  - Project 40 - Using Light to Reduce Fatigue and Improve Alertness in Railway Operations

- **National Cooperative Highway Research Program (NCHRP)**
  - Report 980 - Attracting, Retaining, and Developing the Transportation Workforce: Transportation Planners
  - Report 963 - A Pandemic Playbook for Transportation Agencies (TCRP Report 225)
  - Report 930 - Update of Security 101: A Physical Security and Cybersecurity Primer for Transportation Agencies
  - Report 923 - Workforce Optimization Workbook for Transportation Construction Projects
  - Web-Only Document 266 - Developing a Physical and Cyber Security Primer for Transportation Agencies

- **Transit Cooperative Research Program (TCRP)**
  - IDEA Report 88 - Evaluation of an Automatic, Individual Computer-Based Driver Education and Training Program
  - 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)
  - Report 218 - Characteristics and Elements of Non-Punitive Employee Safety Reporting Systems for Public Transportation
  - Report 217 - Improving the Health and Safety of Transit Workers with Corresponding Impacts on the Bottom Line
- Synthesis 147 - Attracting, Retaining, and Advancing Women in Transit

- Transportation Research Circulars
  - E-C268 - Insights, Inclusion, and Impact: Framing the Future for Women in Transportation

**Milestone Reports**

- Special Report 275: The Transportation Workforce Challenge: Recruiting, Training, and Retaining Qualified Workers for Transportation and Transit Agencies

**Current & Upcoming Projects**

- **Current Projects**
  - ACRP 02-94 - Update ACRP WebResource 4: Airport Air Quality Resource Library
  - ACRP 11-05 - Tactical Initiatives from the ACRP Strategic Plan
  - ACRP Synthesis 11-03/Topic S06-07 - Evolution of Airport Work Models and Strategies
  - BTSCRPR BTS-01 - Guidance for Employer-Based Behavioral Traffic Safety Programs for Drivers in the Workplace
  - NCHRP 02-25 - Workforce 2030: Recruiting and Training the Next Generation Transportation Construction Workforce
  - NCHRP 04-20(30) - Measuring the Effectiveness of Public Involvement at Five State Departments of Transportation: Implementation of the NCHRP Research Report 905 Toolkit
  - NCHRP 20-65/Task 80 - Capacity Building Options for DOT Transit Staff
  - NCHRP 20-105B - Development of Course Outlines for Ahead of the Curve Training Program: Mastering the Management of Transportation Research
  - NCHRP 20-116 - Emergency Management in State Transportation Agencies
  - NCHRP 20-121 - State DOT Contributions to the Study, Investigation, and Interdiction of Human Trafficking
  - NCHRP 23-05 - Guidance for Training and Certification of Construction Inspectors for Transportation Infrastructure
  - NCHRP 23-13(01) - Telecommuting, Remote Work, and Hybrid Schedules: Managing the Shift to a Flexible Work Future
  - NCHRP Synthesis 20-05/Topic 52-09 - Use of Safety Management Systems in Managing Highway Maintenance Worker Safety
  - NCHRP Synthesis 20-05/Topic 52-11 - Use of Smart Work Zone Technologies for Improving Work Zone Safety
  - Safety IDEA Project 43 - Augmenting Reality for Safer Inspections of Railroad Infrastructure and Operations
  - TCRP F-28 - Practitioner’s Guide to Bus Operator Workforce Management
  - TCRP G-17 - Assessing Lifecycle and Human Costs of Bus Operator Workstation Design and Components
  - TCRP J-11/Task 34 - The Effects of Vehicle Automation on the Public Transportation Workforce

- **Upcoming Projects**
  - 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 04-29 - Transportation Emergency Response Application (TERA): Migration Options Beyond 2020
  - ACRP 06-08 - Human Factors in Airport Operations
  - ACRP 09-22 - Guidance for Small Airports on Safe Maintenance of Airfield Electrical Systems
  - NCHRP 08-152 - Strategies for Advancing Equity in Transportation Planning by Increasing Diversity, Equity, and Inclusiveness in The Transportation Planning Profession
  - 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 20-102(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 - Transportation Research Related to COVID-19
  - NCHRP 23-13(06) - Assessing the Equity and Workforce Mobility Implications of the Expansion of E-commerce and Direct-to-Consumer Delivery Services
  - NCHRP 23-18 - Incorporating Knowledge Management into DOT Business Practices
  - NCHRP Synthesis 20-05/Topic 54-20 - Practices to Promote Gender Equity in the DOT Workforce
  - TCRP A-36A - Transportation Emergency Response Application (TERA): Migration Options Beyond 2020
  - TCRP C-25 - Bus Operator Barrier Design
  - 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
Reports from the National Academies Press on Workforce

- 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
- Are Generational Categories Meaningful Distinctions for Workforce Management?
- Building the Workforce We Need to Care for People with Serious Illness
- Changing Expectations for the K-12 Teacher Workforce - Policies, Preservice Education, Professional Development, and the Workplace
- Promising Practices for Addressing the Underrepresentation of Women in Science, Engineering, and Medicine

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
- 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**
- B0173 – U.S. Coast Guard Oversight of Recognized Organizations
- D0225 – Workforce 2030: Recruiting and Training the Next Generation Transportation Construction Workforce
- D2010220 – 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
- DA02101 – Airport Employee Onboarding Environmental Guidebook
- DB001 – Evaluate Workforce Motivational Programs: Safety Citizenship
- TF25 – Improving the Health and Safety of the Transit Workforce
- TF30 – Ensuring the Health and Safety of Transportation System Operators and Others in the Transportation Workforce
- TI1134 – Effects of Automation on the Transit Workforce

Councils
- A001C – Young Members Coordinating Council

**Recent and Upcoming Events**

- **Upcoming TRB Conferences** – Use left hand menu to filter events
- **Upcoming Cosponsored Events** - Conferences cosponsored by TRB are denoted with an asterisk

**18th Biennial National Harbor Safety Committee Conference**
*June 13-15, 2022*
*Boston, MA*
International Conference on Research in Air Transportation*
June 19-23, 2022
Tampa, FL

TRB Scenario Planning Conference
September 19-21, 2022
Washington, D.C.

International Visualization in Transportation Symposium
November 3-4, 2022
Washington, D.C.

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

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
- Research Needs Statements (RNS) – rns.trb.org - Research needs as identified by TRB Technical Activities standing committees
- 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