TRB Snap Search: Workforce

TRB’s involvement in research on Workforce from 2018-2020

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 Reports

○ Critical Issues in Transportation 2019

Recent Reports & Publications

• Airport Cooperative Research Program (ACRP)
  ○ Research Results Digest 28 - Preemption of Worker-Retention and Labor-Peace Agreements at Airports
  ○ Report 202 - Developing Innovative Strategies for Aviation Education and Participation
  ○ Report 186 - Guidebook on Building Airport Workforce Capacity
  ○ Synthesis 103 - Promoting Aviation Career Education in High Schools and Community Colleges
  ○ Synthesis 99 - Emergency Working Groups at Airports
  ○ Web-Only Document 49 - Research Roadmap on Airport Administration & Human Resource Issues

• Conference Proceedings
  ○ Proceedings on the Web 25 - Proceedings of the 12th National Conference on Transportation Asset Management

• National Cooperative Highway Research Program (NCHR)
  ○ Report 923 - Workforce Optimization Workbook for Transportation Construction Projects
  ○ Synthesis 543 - Transportation Workforce Planning and Development Strategies

• Transit Cooperative Research Program (TCRP)
  ○ Report 199 - Transit Technical Training, Volume 2: Guide to Overcoming Barriers to Implementing Best and Innovative Training
  ○ Report 194 - Knowledge Management Resource to Support Strategic Workforce Development for Transit Agencies
  ○ Report 193 - Tools and Strategies for Eliminating Assaults Against Transit Operators, Volume 1: Research Overview
  ○ Synthesis 147 - Attracting, Retaining, and Advancing Women in Transit
  ○ Synthesis 143 - Managing the Transit Scheduling Workforce

• Special Reports
  ○ Report 333 - Toward New Naval Platforms: A Strategic View of the Future of Naval Engineering

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 04-23 - Social Media Guidebook for Emergency Management
  - ACRP 06-05 - Guidance for Diversity in Airport Businesses Contracting and Workforce Programs
  - ACRP 06-06 - Cultivating Talent in the Airport Environment
  - ACRP 06-07 - Building Academic Programs to Cultivate Future Airport Industry Professionals
  - ACRP 11-05 - Tactical Initiatives from the ACRP Strategic Plan
  - ACRP Synthesis 11-03/Topic S10-16 - Training Programs for Airport Operations Personnel
  - BTS/ACRP BTS-01-01 - 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 03-124 - Principles and Guidance for Presenting Drivers with Dynamic Information on Active Traffic Management
  - NCHRP 03-131 - Guidance for Planning and Implementing Multimodal, Integrated Corridor Management
  - NCHRP 08-125 - A Comprehensive Study of Future Competencies for Transportation Planners
  - NCHRP 20-24(95) - Ensuring Essential Capability for the Future Transportation Agency
  - NCHRP 20-44(11) - Advancing practices for data governance, information management, and managing the impact of digitization on DOT workforces
  - 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
  - TCRP F-25 - Improving the Safety, Health, and Productivity of Transit Operators Through Adequate Restroom Access
  - TCRP F-26 - Improving the Health and Safety of Transit Workers with Corresponding Impacts on the Bottom Line
  - TCRP F-27 - Characteristics and Elements of Non-Punitive Employee Safety Reporting Systems for Public Transportation
  - 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
  - TCRP J-11/Task 35 - Resource Guide for Improving Diversity and Inclusion Programs for the Public Transportation Industry

- **Upcoming Projects**
  - ACRP 06-08 - Human Factors in Airport Operations
  - NCHRP 20-102(20) - Workforce Capability Strategies for State and Local Agencies
  - NCHRP 23-05 - Guidance for Training and Certification of Construction Inspectors for Transportation Infrastructure
  - NCHRP Synthesis 20-05/Topic 52-09 - Use of Safety Management Systems in Managing Highway Maintenance Worker Safety
  - TCRP F-28 - Practitioner’s Guide to Bus Operator Workforce Management

Reports from the National Academies Press on Workforce

- Promising Practices for Addressing the Underrepresentation of Women in Science, Engineering, and Medicine
- Dialogue About the Workforce for Population Health Improvement
- Minority Serving Institutions - America’s Underutilized Resource for Strengthening the STEM Workforce
- A Smarter National Surveillance System for Occupational Safety and Health in the 21st Century
- The Human Factors of Process Safety and Worker Empowerment in the Offshore Oil Industry
- Adaptability of the US Engineering and Technical Workforce
- Workforce Development and Intelligence Analysis for National Security Purposes
- Measuring the 21st Century Science and Engineering Workforce Population

Committees & Panels

Sign-up to be a committee "Friend"

TRB Standing Committees – Search by transportation mode and committee topic

- ABC00 – Management and Leadership
Task Forces - Search for task force under committee here

CRP Panels
- DA0604 – Identifying and Evaluating Airport Workforce Requirements
- DA0605 – Guidance for Diversity in Airport Businesses Contracting and Workforce Diversity Programs
- SN4910 – Synthesis of Transportation Workforce Development Strategies for Young Adults, Second Career Professionals, Veterans, and Encore Careerists
- STSF20 – Synthesis of Managing the Transit Scheduling Workforce
- TF23 – Knowledge Management Resource to Support Strategic Workforce Development for Transit Agencies
- TF24 – Frontline Workforce Training: Moving from Past Practice to Best Practice
- TF25 – Improving the Health and Safety of the Transit Workforce

Councils
- A001C – Young Members Coordinating Council

Recent and Upcoming Events

Upcoming Conferences - Left hand menu “upcoming conferences by topic”
(Conferences cosponsored by TRB are denoted with an asterisk.)

**ITS World Congress 2020**
October 4-8, 2020
Online

**TRB Transit Safety and Security Conference and APTA Mid-year Safety and Security Seminar**
November 16-18, 2020
Washington, DC

**24th National Conference on Rural Public and Intercity Bus Transportation**
October 24-27, 2021
Charleston, SC

Webinars – View upcoming webinars, suggest a webinar or add registration information

Past Webinars
- Enhance Work Zone Safety with New Technologies – July 9, 2020
- Construction Project Staffing Strategies for Transportation Agencies – June 23, 2020
- Attracting the Future Construction Workforce – Case Studies – May 12, 2020
- Let’s work together: Airport emergency working groups – February 19, 2020
- Design Thinking Potential for State Departments of Transportation – September 12, 2019
- Highway Maintenance Goes to College - November 7, 2018
- Building a Twenty-First Century Transportation Planning Workforce – October 9, 2018
- Workforce of the Future: Educating and Retraining the Freight Industry – August 28, 2018

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:

TRID – The world’s largest and most comprehensive bibliographic source on all modes and disciplines of transportation - trid.trb.org
Publications Index (PubsIndex) Database – The papers, articles and reports published by the Transportation Research Board, Highway Research Board, Strategic Highway Research Programs or the Marine Board - pubsindex.trb.org

Research in Progress (RiP) Database – Current or recently completed transportation research projects - rip.trb.org

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

Contact the Library at TRBLibrary@nas.edu or I (202) 334-2989