

**AIRPORT COOPERATIVE RESEARCH PROGRAM  
PROBLEM STATEMENT INDEX  
FISCAL YEAR 2022**

**PROBLEM STATEMENTS**

91	<a href="#">Commercial Space Transportation Noise Model Validation</a>
285	<a href="#">Determining Carbon Removal Opportunities at Airports to Achieve Net Zero Emissions</a>
286	<a href="#">Facilitating a Better Understanding of Water Quality of Airside Stormwater Runoff at Airports</a>
288	<a href="#">Airport Maintenance Facilities Design</a>
409	<a href="#">Understanding Airport Noise &amp; Air Quality Baselines and Relationship to Operations</a>
417	<a href="#">Emerging Energy Vectors at Airports</a>
454	<a href="#">Describing, modelling and predicting passengers' arrival patterns</a>
512	<a href="#">Enhancing Graduate Academic Programs for Career Advancement in the Airport Industry</a>
514	<a href="#">Attributes and Influencing Interests of Students Enrolled in Collegiate Aviation Management Programs</a>
548	<a href="#">Using Security Automation as a Revenue Stream</a>
559	<a href="#">Synthesis of programs for permanent art installations at airports</a>
561	<a href="#">Airport Governance Structure Effects on Post Covid-19 recovery</a>
564	<a href="#">General Aviation Guide to Airfield Lighting Maintenance</a>
579	<a href="#">The impacts of passenger behavior changes due to the COVID-19 pandemic on Airport Terminal Area Planning and Design</a>
583	<a href="#">Airport Parking Strategies Preparing for Robotaxis and Electric Vehicles</a>
590	<a href="#">Airport Accident Analysis and Impacts to Safety Zones</a>
598	<a href="#">Vegetation Height and Impacts on Deterring Small Birds on Airports</a>
605	<a href="#">Best Practices for Enhancing Airport Power Supply Resiliency</a>

607	<a href="#">Emerging Ground Access Technologies at Airports: A Primer</a>
619	<a href="#">Employee Onboarding Environmental Guidebook</a>
622	<a href="#">A Guide to Best Practices in Infrastructure and Programs Designed to Increase Public Transit Access to Airports</a>
625	<a href="#">Application of Congestion Pricing to Improve Terminal Curb Operations and Enhance HOV Ground Access to Airports</a>
630	<a href="#">Vehicle-to-Grid Microgrid at Airports</a>
651	<a href="#">Renewables to Resilience: Strengthening Airport Resilience through Retrofitting Existing Renewable Energy Assets</a>
655	<a href="#">Guidebook on Sources of Data for Air Passenger Travel</a>
657	<a href="#">Peer-to-Peer Car Sharing Activity at Airports: Challenges and Opportunities</a>
659	<a href="#">Use of Equity and Environmental Justice Data to Support Airport Decision-making</a>
662	<a href="#">Planning standards for Autonomous Vehicles on Landside Ground Operations</a>
666	<a href="#">Urban Air Mobility Noise Modeling</a>
672	<a href="#">Update to Report 147: Climate Change Adaptation Planning, Risk Assessments for Airports</a>
674	<a href="#">Update to Report 11: Preparing Airport Greenhouse Gas Emissions Inventories</a>
676	<a href="#">Update to Report 160: Addressing Significant Weather Impacts on Airports</a>
678	<a href="#">Update to Report 43: Improving Environmental Performance at Small Airports</a>
682	<a href="#">Integrated Contingency Planning for Small Airports</a>
684	<a href="#">Delivering Cost-Effective Training for Airfield Electricians for General Aviation and Other Small Airports</a>
685	<a href="#">Guidance on Developing an Airport Service Operator Business Model</a>
689	<a href="#">Airport Microgrid Toolkit Upgrade and Host Identification</a>
693	<a href="#">Transitioning Airport Central Utility Plants to Electric</a>
703	<a href="#">Digital Twin for Airports : Why and How?</a>

707	<a href="#">Guidebook for Improved Data Privacy Management</a>
708	<a href="#">Potential Airport Pathways to Net Zero Carbon Emissions: Who, What, When, Where, &amp; How?</a>
709	<a href="#">Guidance on Concept Planning and Designing of Airport Coordination Centers</a>
711	<a href="#">Implementing a Positive Culture and Enhancing the Employee Experience</a>
713	<a href="#">Financial Impacts of Climate Change</a>
715	<a href="#">ACRP Badge and Medallion Award Program</a>
719	<a href="#">Best practices for streamlining Disadvantaged Business Enterprise (DBE) and Airport Concession DBE Certifications</a>
720	<a href="#">Increasing diversity and reducing airport resource requirements in airport concessions.</a>
724	<a href="#">Talent Acquisition Methods that Promote Sustainability of the Workforce Pipeline</a>
726	<a href="#">Improving Airport Employee Well-Being through Targeted Programs and Tracking Metrics</a>
728	<a href="#">Catalyzing airport-based carbon solutions</a>
732	<a href="#">Flight Shaming and the Impacts of Reducing Greenhouse Gas Emissions by Flying Local</a>
734	<a href="#">Establishing Metrics to Safely Restart Aviation Post COVID-19</a>
736	<a href="#">Improving Benefit-Cost Analyses for General Aviation Airports</a>
749	<a href="#">Review and Update of ACRP Policy &amp; Planning Products</a>