

Total Problem Statements: 55

| Problem Statement Number | Title / Submitter (Agency) | Requested Budget | Recommended Allocation | Proposed Duration (Mo's)* |
|--------------------------|---|-----------------------|------------------------|---------------------------|
| 4 | Apps for Airports--Synthesis Idea Creator: Robert Samis, FAA Owner/Submitter: Robert Samis, FAA | \$30,000- \$60,000 | \$200,000 | -- |
| 7 | Air Passenger Values of Time and Qualitative Travel Attributes Idea Creator: Geoffrey Gosling, Aviation System Consulting Owner/Submitter: Geoffrey Gosling, Aviation System Consulting | \$450,000 | \$450,000 | 24 |
| 10 | Review of Governance Structures Idea Creator: Syed Mehdi, San Antonio International Airport Owner/Submitter: Syed Mehdi, San Antonio International Airport | \$275,000 | \$300,000 | -- |
| 14 | Benefits of Arts to Airports and Stakeholders Idea Creator: Ian Todreas, ERG Owner/Submitter: Ian Todreas, ERG | \$400,000 | \$375,000 | -- |
| 15 | Development of Airport Incident Command System (ICS) Training Idea Creator: Tim Riecker, Emergency Preparedness Solutions Owner/Submitter: Tim Riecker, Emergency Preparedness Solutions | \$110,000 | \$400,000 | -- |
| 19 | Evaluating the Impact of Aircraft Lateral Turning Forces on Pavement Design and Performance Idea Creator: David Timm, Auburn Engineering Owner/Submitter: Danny Xiao, University of Wisconsin-Platteville | \$400,000 | \$400,000 | 18 |
| 20 | Subsurface Drainage System Benefits in Airport Pavement Performance Idea Creator: David Timm, Auburn Engineering Owner/Submitter: Danny Xiao, University of Wisconsin-Platteville | \$400,000 | \$350,000 | 15 |
| 28 | Guidebook for Airports to Enhance/Support FAA Trajectory Based Operations (TBO) Idea Creator: Stephen Vail, Mosaic ATM Owner/Submitter: Stephen Vail, Mosaic ATM | \$400,000 | \$400,000 | -- |
| 41 | Identifying Viable Techniques for Modifying NextGen Flight Track Design to Reduce Community Noise Exposure and Annoyance Idea Creator: Steve Alverson, Environment Science Assoc. Owner/Submitter: Steve Alverson, Environment Science Assoc. | \$200,000 | \$200,000 | -- |
| 43 | Human Factors in Airport Operations Idea Creator: Enrique Sanabria, PANYNJ Owner/Submitter: Enrique Sanabria, PANYNJ | \$400,000 | \$400,000 | 18 |
| 44 | Busing Resources for Aircraft Emergencies and Transportation Outages Idea Creator: Nate Kimball, PANYNJ Owner/Submitter: Nate Kimball, PANYNJ | \$40,000 | \$45,000 | -- |

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| 47 | Airport Emissions Tool Idea Creator: Kris Russell, DFW Airport Owner/Submitter: Charles Murphy, Metron Aviation | \$450,000 | \$450,000 | 24 |
| 50 | "Last Mile" in General Aviation - Guidance on Challenges with Courtesy Cars and Other Forms of Ground Transportation Idea Creator: Christopher Morgan, Minnesota DOT, Aeronautics Owner/Submitter: Christopher Morgan, Minnesota DOT, Aeronautics | \$150,000-\$200,000 | \$200,000 | -- |
| 53 | Airside Planning, Design and operations: Electronic Resources Library Idea Creator: Gael LeBris, WSP USA Owner/Submitter: Gael LeBris, WSP USA | \$300,000 | \$250,000 | -- |
| 54 | Effective Removal and Temporary Application of Airfield Pavement Markings Idea Creator: Gael LeBris, WSP USA Owner/Submitter: Gael LeBris, WSP USA | \$450,000 | \$450,000 | 18 |
| 55 | Green Taxiing at Airports Idea Creator: Gael LeBris, WSP USA Owner/Submitter: Gael LeBris, WSP USA | \$300,000 | \$300,000 | 18 |
| 56 | Runway Incursion Risk Modelling Idea Creator: Kenneth Jacobs, Applied Research Associates Owner/Submitter: Kenneth Jacobs, Applied Research Associates | \$200,000 | \$400,000 | 18 |
| 57 | Safety Risk Assessment Case Studies Idea Creator: Kenneth Jacobs, Applied Research Associates Owner/Submitter: Kenneth Jacobs, Applied Research Associates | \$150,000 | \$250,000 | 18 |
| 58 | Develop Airfield Design Guidelines for Unmanned Aerial Vehicles Idea Creator: Gael LeBris, WSP USA Owner/Submitter: Gael LeBris, WSP USA | \$800,000 | \$400,000 | -- |
| 59 | Blockchain Technology and Airports - A Primer Idea Creator: Siegfried Adler, SC Adler & Associates Owner/Submitter: Siegfried Adler, SC Adler & Associates | \$250,000 | \$325,000 | -- |
| 60 | Building Academic Programs to Cultivate Future Airport Industry Professionals Idea Creator: Daniel Bartholomew, Reno International Airport Owner/Submitter: Daniel Bartholomew, Reno International Airport | \$200,000 | \$300,000 | -- |
| 63 | Software Solutions and Tools for Airport Administration Idea Creator: Clayton Stambaugh, Illinois DOT Owner/Submitter: Clayton Stambaugh, Illinois DOT | \$75,000-- synthesis; \$250,000- guidebook | \$250,000 | -- |

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| 64 | Update of Runway Vertical Curve Requirements for Longitudinal Grade Changes, Considering New Large Aircraft (NLA) Idea Creator: Samuel Cardoso, Consultant Owner/Submitter: Ernie Heymsfield, University of Arkansas | \$350,000 | \$350,000 | -- |
| 66 | Alternative Anti-Icing Airfield Runway Systems Idea Creator: Ernie Heymsfield, University of Arkansas Owner/Submitter: Ernie Heymsfield, University of Arkansas | \$450,000 | \$450,000 | -- |
| 68 | Urban Air Mobility Market Study Idea Creator: Adam Cohen, UC Berkeley Owner/Submitter: Adam Cohen, UC Berkeley | \$350,000 | \$350,000 | -- |
| 72 | Low Cost Remote Tower Solution Idea Creator: Grant Bishop, Moy Bishop & Associates Owner/Submitter: Grant Bishop, Moy Bishop & Associates | \$500,000 | \$500,000 | -- |
| 73 | Improving Situational Awareness, Operational Risk Management, and Safety by Fusing Data from Multiple Sensor Types Idea Creator: Carol Fuqua DeTect Inc. Owner/Submitter: Carol Fuqua DeTect Inc. | \$500,000 | \$500,000 | 24 |
| 74 | Enhancing the Management of Adverse Conditions, IROPS, and Crises with Airport Collaborative Decision Making Idea Creator: Gael LeBris, WSP USA Owner/Submitter: Gael LeBris, WSP USA | \$300,000 | \$300,000 | -- |
| 75 | Demonstrate Remote Autonomous Air Traffic Advisory System Idea Creator: David Wartofsky, Potomac Airport/Potomac Aviation Tech Corp. Owner/Submitter: David Wartofsky, Potomac Airport/Potomac Aviation Tech | \$500,000 | \$500,000 | -- |
| 77 | Best Practices for Conducting Consumer Research Among Air Passengers Idea Creator: Jennifer Franz, JD Franz Research Owner/Submitter: Jennifer Franz, JD Franz Research | \$450,000 | \$450,000 | 24 |
| 78 | Electric Aircraft on the Horizon - Planning handbook for Airports Idea Creator: Adam Klauber, Rocky Mountain Institute Owner/Submitter: Adam Klauber, Rocky Mountain Institute | \$450,000 | \$450,000 | -- |
| 81 | Sustainable Aviation Fuel Infrastructure Assessment Guide Idea Creator: Adam Klauber, Rocky Mountain Institute Owner/Submitter: Adam Klauber, Rocky Mountain Institute | \$400,000 | \$400,000 | -- |
| 82 | Benchmarking Energy, Water, Waste, and Greenhouse Gas Emissions for Operational Improvements Idea Creator: Stephanie Jaeger, San Francisco Int'l Airport Owner/Submitter: Stephanie Jaeger, San Francisco Int'l Airport | \$480,000 | \$480,000 | -- |

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| 83 | Small Airport Autonomous and Remote Traffic Systems (SmAARTS) Idea Creator: Steven Bradford, FAA Owner/Submitter: Steven Bradford, FAA | \$1,500,000 | \$1,500,000 | 26 |
| 84 | Airport Guidance for Achieving Environmental Certifications Idea Creator: Robert Nedbor-Gross, KB Environmental Sciences Owner/Submitter: Robert Nedbor-Gross, KB Environmental Sciences | \$300,000 | \$300,000 | -- |
| 85 | Wilkomen, Bienvenue, Welcome! The Need for and Benefits to Providing Multilingual and Other Accommodations at Airports Idea Creator: Ian Todreas, ERG Owner/Submitter: Ian Todreas, ERG | \$400,000 | \$450,000 | -- |
| 86 | Strategies to Mitigate Concentrated Aircraft Noise from PBN and RNP/RNAV Procedures Idea Creator: Charles Murphy, Metron Aviation | \$450,000 | \$450,000 | 24 |
| 87 | Guidebook for Airport and Airspace Practitioners on Commercial Space Operations Idea Creator: Charles Murphy, Metron Aviation | \$350,000 | \$350,000 | 18 |
| 88 | Construction Safety and Phasing Plans (CSPP): Best Practices Idea Creator: Ryan Johnson, Harrisburg Int'l Airport Owner/Submitter: Ryan Johnson, Harrisburg Int'l Airport | \$250,000 | \$250,000 | -- |
| 89 | Helicopter and Tiltrotor Noise Modeling Procedures Document Idea Creator: Juliet Page, US DOT/Volpe Owner/Submitter: Juliet Page, US DOT/Volpe | \$250,000 | \$250,000 | -- |
| 91 | Commercial Space Transportation Noise Model Enhancement and Validation Idea Creator: Michael James, Blue Ridge Research & Consulting Owner/Submitter: Michael James, Blue Ridge Research & Consulting | \$450,000 | \$450,000 | -- |
| 92 | Guidebook for Rapid Airfield Concrete Pavement Slab Replacement and Patching Idea Creator: Michael McNerney, University of Texas at Arlington Owner/Submitter: Michael McNerney, University of Texas at Arlington | \$400,000 | \$400,000 | 30 |
| 94 | Cultivating Talent in the Airport Environment Idea Creator: Karen Scott, Louisville Reg'l Airport Authority Owner/Submitter: Karen Scott, Louisville Reg'l Airport Authority | \$250,000 | \$250,000 | -- |
| 95 | Guidebook for Developing Contractual Language for Building Information Modeling (BIM) Airport Projects Idea Creator: Tamera McCuen, University of Oklahoma Owner/Submitter: Tamera McCuen, University of Oklahoma | \$250,000 | \$250,000 | 18 |

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| 96 | SkyDome - Keeping the Skies Above Airports Safe & Secure with Accurate Airborne Detect Alerts Idea Creator: Bruce Carpenter, Fortem Technologies Owner/Submitter: Bruce Carpenter, Fortem Technologies | \$300,000 | \$300,000 | -- |
| 97 | Using Recycled Carbon Fibers in Electrically Heated Pavement Idea Creator: Joachim Roesler, JoR Services Owner/Submitter: Joachim Roesler, JoR Services | \$180,000 | \$180,000 | -- |
| 98 | Using Data and Behavioral Sciences to Enhance the Customer Experience through an Engaged and Skilled Workforce Idea Creator: Rich Griffith, Florida Institute of Technology Owner/Submitter: Rich Griffith, Florida Institute of Technology | \$425,000 | \$425,000 | 24 |
| 99 | Effective Task Saturation Interventions to Improve Airport Employee Performance Idea Creator: Steven Aude, ICF International Owner/Submitter: Steven Aude, ICF International | \$450,000 | \$450,000 | 24 |
| 100 | Supporting Employee Well-being through Workforce Programs Idea Creator: Allison Alexander, ICF International Owner/Submitter: Allison Alexander, ICF International | \$300,000 | \$300,000 | 18 |
| 101 | Effective Collaboration to Planning and Responding to Communicable Disease Threats Idea Creator: ACRP 11-08(16-01) Committee Owner/Submitter: Marci Greenberger, ACRP | \$600,000 | \$600,000 | -- |
| 104 | Revenue and Customer Satisfaction Decision-Enabler Model Idea Creator: Stanley Tse, InterVISTAS Owner/Submitter: Stanley Tse, InterVISTAS | \$400,000 | \$550,000 | 15 |
| 105 | Counting Airport Operations from Automatic Dependent Surveillance-broadcast (ADS-B) Data Idea Creator: Maria Muia, Wolpert Owner/Submitter: Maria Muia, Wolpert | \$400,000 | \$400,000 | -- |
| 116 | Biennial Report on Transformative Technology at Airports Idea Creator: ACRP 2018 Thought Leader Forum Owner/Submitter: Joe Navarrete, ACRP | \$100,000 | \$100,000 | 12 |
| 117 | Update to ACRP 157 - Improving the Airport Customer Experience Idea Creator: ACRP 2018 Thought Leader Forum Owner/Submitter: Joe Navarrete, ACRP | \$250,000 | \$250,000 | 15 |

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| 118 | Creative Marketing Techniques to Improve Revenue Generation Partnerships | \$300,000 | \$300,000 | 15 |
| Idea Creator: ACRP 2018 Thought Leader Forum Owner/Submitter: Joe Navarrete, ACRP | | | | |

*Note: Research duration not a required field in IdeaHub.