


Stimulating Innovation and the U.S. Economy through the U.S.DOT's Small Business Innovation Research (SBIR) Program

July, 2017

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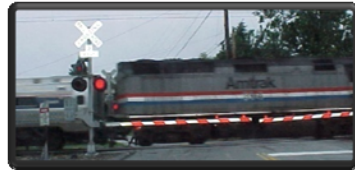


Volpe The National Transportation Systems Center
Advancing transportation innovation for the public good

 U.S. Department of Transportation
Office of the Secretary of Transportation
John A. Volpe National Transportation Systems Center

How SBIR Supports the Mission of DOT

- The mission of the DOT is to ensure a fast, safe, efficient, accessible and convenient transportation system that meets vital national interests and enhances the quality of life of the American people
- SBIR addresses high priority research gaps within DOT's R&D Program
- SBIR topics are developed to align with Secretary's strategic priorities, specific modal priorities, and SBA



Snapshot of Phase I Participation in DOT's SBIR Program by Agency

DOT Operating Administration	2014	2015	2016	2017
Federal Aviation Administration*	X			
Federal Highway Administration/ITS-Joint Program Office	X	X	X	X
Federal Railroad Administration	X	X		X
Federal Transit Administration	X	X	X	X
Federal Motor Carrier Safety Administration				
National Highway Traffic Safety Administration	X	X		X
Office of the Secretary	X			X
Pipeline and Hazardous Material Safety Administration	X			
*Excused by Legislation: FAA contributed to the U.S. DOT's SBIR Program from 1985 to 2005				



DOT's SBIR Program Details

- Budget - Annual SBIR budget ~\$9M
- Topics - 5-10 SBIR Topics per year
- Award Funding Limits Vary by Topic-
 - Phase I- Up to \$150K
 - Phase II- \$350K to \$1M
 - Phase IIB- \$350K to \$1M
- Number of Awards per year Funding
 - Phase I- based on Solicitation Topics
 - Phase II- 50-60% of Phase Is
 - Phase IIB- ~25% of Phase IIs



DOT's SBIR Program Details

- Solicitations
 - 1 solicitation per year
 - Next Solicitation expected Fall 2017
 - Sign up for our email list on our website for notification of Open and Close dates
- Administers Contracts not Grants
- Majority VC firms not eligible



DOT's SBIR Topics



Examples of Past Topics		
Management System Display to Track Emergency Response Vehicles and Mutual Aid during a crash (FAA)	Active Personal Safety System for Train Yard and Road Crewworkers (FRA)	Driver Fatigue and Distraction Monitoring and Warning System (FMCSA)
Driver Engagement/Status Monitoring Technologies for Vehicle Automation Applications (FHWA)	Innovative Transit Technology Devices, Applications, or Solutions Focused on Safety, Mobility, or Energy and Sustainability (FTA)	Community College – Technical School Intelligent Transportation Systems (ITS) Curricula (FHWA)
Detection of THC Use in Drivers (NHTSA)	Improving the Ventilation of Motorcycle Helmets (NHTSA)	Using alternative energy to reduce greenhouse gas production in the transportation sector (OST-R)
New non-destructive evaluation methods to quantify remaining strength of line pipe steel and or pipeline fittings (PHMSA)		

Upcoming FY2018 Solicitation Schedule

Visit www.volpe.dot.gov/sbir to sign-up to receive alerts on new solicitations

Action	Tentative Start Date	Tentative End Date
Solicitation Open and Close Dates	October	December
Evaluation Period Initiation and Completion	Late December	Early February
Announce Award Recommendations	NLT 90 days from Solicitation Close	
Award Contracts	NLT 180 days from Solicitation Close	



DOT Solicitation Process

- ❑ Solicitations are posted at <http://www.volpe.dot.gov/sbir> and <http://www.fbo.gov>
- ❑ Requests for clarifications/questions on research topics can be submitted to the Program Office staff
- ❑ Submission of proposals via secured website is a requirement
- ❑ Program Office does not accept unsolicited proposals



DOT SBIR Success Story: SmartCross by Savari Inc.



- Federal Highway Administration awarded a contract to Savari Inc. in 2010, a Phase II in 2013, and a Phase IIB in 2016.
- Using SBIR funds, Savari Inc. developed a traffic signal interface app for smartphones called SmartCross
 - *“The SmartCross system aims to reduce the risk of vehicle-pedestrian crashes by providing situational awareness to the pedestrian as well as the vehicle approaching a crosswalk”*
- Recognized at the ITS America 2016 Best of ITS Awards in the category “Wheels and Things”



Opportunities Outside of DOT SBIR Program

- ❑ DOT/Office of Small and Disadvantaged Business Utilization – <http://www.osdbu.dot.gov>
- ❑ Fed Biz Ops – <http://www.fbo.gov>
- ❑ University Transportation Center Program – <http://utc.dot.gov>
- ❑ Transportation Research Board – <http://www.trb.org>
- ❑ Challenge.gov
- ❑ Check DOT agency websites for BAAs, RFIs and other research opportunities



U.S. DOT SBIR Contact Information

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