

**FY 2017 Vehicle Technologies Program-Wide  
Funding Opportunity Announcement Selections**

**DE-FOA-0001629**

<b>Applicant</b>	<b>Location (city, state)</b>	<b>Project Title/Description</b>	<b>Federal Share</b>
<b>Battery500 Seedling Projects – Phase 1 awards (Area of Interest 1)</b>			
Through the Advanced Vehicle Power Technology Alliance between the Department of Energy and the Department of the Army, the Army is contributing \$1.0 million towards these projects.			
University of Maryland: College Park	College Park, MD	Research innovative iron-based materials for high energy cathodes for high energy lithium ion battery technologies.	\$400,000
Lawrence Berkeley National Laboratory	Berkeley, CA	Research thick cathodes using freeze casting methods for solid-state lithium batteries.	\$400,000
Penn State University Park	University Park, PA	Research multifunctional Li-ion conducting interfacial materials that enable high-performance lithium metal anodes.	\$399,194
Mercedes-Benz Research & Development North America, Inc.	Redford, MI	Research a scalable synthesis to enable very thin coatings on solid state electrolyte membranes to enable high performance Li-Sulfur Battery.	\$400,000
University of Maryland: College Park	College Park, MD	Using 3D printed, low tortuosity frameworks, develop solid state Li-ion batteries.	\$400,000
General Motors LLC	Pontiac, MI	Design, engineer, develop, and integrate pouch-format cells for lithium-sulfur batteries to achieve high energy density and long cycle life.	\$400,000
University of Pittsburgh	Pittsburgh, PA	Research sulfur electrodes utilizing lithium ion conductor (LIC) coatings for high energy density advanced lithium-sulfur (Li-S) batteries.	\$400,000
Cornell University	Ithaca, NY	Research highly loaded sulfur cathodes and conductive carbon coated separators that enable high energy batteries.	\$360,000
University of Maryland: College Park	College Park, MD	Research advanced electrolytes to limit dendrite growth in lithium-metal cells.	\$400,000
Texas A&M Engineering Experiment Station	College Station, TX	Utilize an analytical and experimental approach to examine the interface between solid state electrolytes and lithium-metal anodes and identify potential methods for mitigating dendrite growth.	\$400,000
Navitas Advanced Solutions Group, LLC	Ann Arbor, MI	Research a solvent-free process to fabricate all-solid Li batteries.	\$400,000

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Wayne State University	Detroit, MI	Research novel full-cell, ultra high-energy Li-metal batteries based on 3-dimensional architectures.	\$225,000
Oregon State University	Corvallis, OR	Research and develop a new process to produce Li <sub>2</sub> S@graphene composite cathodes to inhibit polysulfides to enhance cycle life.	\$353,500
SUNY University at Stony Brook	Stony Brook, NY	Research li-sulfur batteries using a novel sulfur rich nanosheet composite cathode.	\$400,000
University of Houston	Houston, TX	Research high-energy solid-state lithium batteries with organic cathode materials.	\$400,000
<b>ICME Low Cost Carbon Fiber (Area of Interest 2)</b>			
University of Virginia	Charlottesville, VA	Research multiscale integrated computational approach to assess new carbon fiber precursors. Reactive Force Field and coarse-grained molecular dynamics simulations of conversion processes will help identify promising precursors.	\$3,000,000
Western Research Institute	Laramie, WY	Using state-of-the-art oil and polymer analytics, DFT aided molecular dynamics modeling, and machine learning, the Consortium will develop advanced computational tools for low cost carbon fiber from a variety of feed stocks.	\$3,745,413
<b>Emission Control Strategies for Advanced Combustion Engines (Area of Interest 3)</b>			
University of Houston	Houston, TX	Research and develop a multi-functional, lean catalyzed trap for low temperature combustion engines.	\$2,099,998
University of Kentucky	Lexington, KY	Research and develop novel adsorber technology to address hydrocarbon and nitrogen oxide emissions for Low Temperature Gasoline Applications.	\$2,098,530
<b>EEMS R&amp;D projects (Area of Interest 4)</b>			
Clemson University	Clemson, SC	Create anticipative and predictive vehicle controls algorithms and develop novel vehicle-in-the-loop testbed to show energy savings of 10% in mixed traffic.	\$1,159,987
Virginia Polytechnic Institute and State University	Blacksburg, VA	Develop a novel bi-level (traffic and vehicle) controller that integrates eco-routing, speed harmonization, and vehicle dynamics control to achieve 20% efficiency improvement in combined city/highway traffic.	\$1,507,197
University of California: Riverside	Riverside, CA	Evaluate energy opportunities from connected, automated, shared mobility services through	\$1,094,578

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		data collection and energy intensity and modal activity modeling in the state of California.	