

2016: Hundreds of Millions in Federal Funding Opportunities on the Horizon Clean Energy and Advanced Manufacturing High Priorities

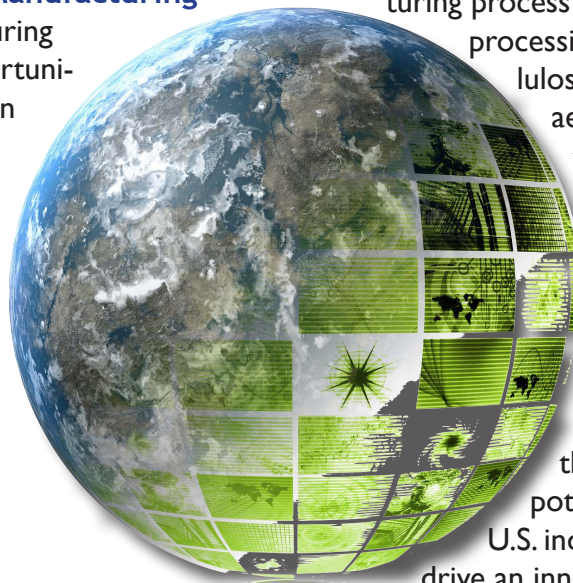
The Obama Administration is making a full court press to drive U.S. innovation and competitiveness in clean energy and advanced manufacturing. The coming year will see hundreds of millions of dollars awarded to companies, universities, industrial consortia and other entities for research and development, innovation institutes, and other elements of innovation ecosystems. Also, the Department of Energy (DOE) is rolling out new programs to encourage researchers and companies to engage with national laboratories. Highlights are included in this newsletter.

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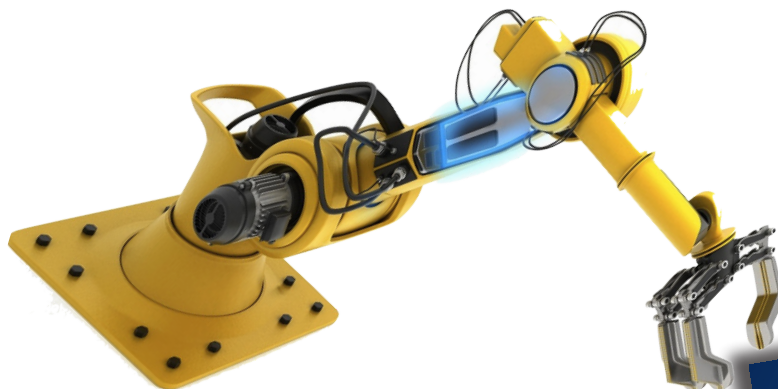
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Clean Energy and Advanced Manufacturing

R&D: DOE's Advanced Manufacturing Office plans six new funding opportunities, each awarding \$15-\$20 million in R&D grants. Potential topics include: chemical process intensification; grid integration of manufacturing; smart manufacturing; advanced materials manufacturing, including advanced steels and nanomaterials; next generation electric machines; and sustainable manufacturing.



Manufacturing Innovation Institutes: Rumor has it that 2016 will see seven new National Network of Manufacturing Innovation Institutes, typically worth \$70 million in Federal funding for each. Two solicitations are currently pending: smart manufacturing (advanced sensors, controls, platforms and modeling for manufacturing), and revolutionary fibers and textiles. Several topics have been mentioned as candidates for upcoming manufacturing institutes including: advanced materials manufacturing, manufacturing process intensification, 2D roll-to-roll processing, biomanufacturing, nano-cellulose, engineered nanomaterials, aerospace composites, and electronic packaging and reliability. Also, the National Institute of Standards and Technology is authorized to fund two new institutes to be selected through open competitions. Don't be left out in the cold! These institutes and the size of the investments have the potential to be game-changers for U.S. industry, as they are designed to drive an innovation ecosystem in the United States for the technologies, and development and scale-up of domestic manufacturing.



National Laboratory Small Business

Vouchers: Over the next 18 months-2 years, DOE is going to invest \$20 million to support 100 vouchers that will enable small businesses to access the expertise and infrastructure at national laboratories. These vouchers will support R&D collaboration in advanced manufacturing, bioenergy, energy efficient buildings, fuel cell, geothermal, solar, water, wind, and vehicle technologies.

Renewable Energy and Energy Efficiency:

DOE will make millions in awards for R&D and demonstration grants in solar energy and solar manufacturing technologies; a range of energy efficient building technologies; vehicles and batteries; solid-state lighting; and other topics.

Defense Manufacturing and Materials: The Air Force Research Laboratory Materials and Manufacturing Directorate has \$95 million to invest in materials and manufacturing research and development on topics such as metals, composites and ceramics fabrication; flexible and functional materials; additive manufacturing; virtual, agile and digital manufacturing; electronics manufacturing; sensors and sensor materials; and more.

Engineering Research Centers: The next funding cycle for the National Science Foundation's Engineering Research Centers program is FY 2017. Funding per ERC is worth nearly \$20 million over the life of the award.



Building Innovation Ecosystems: The Commerce Department's Economic Development Administration has more than \$130 million to invest in public works and economic adjustment assistance programs. Priorities for investment include: innovation clusters, clean energy and green technologies, sustainable and advanced manufacturing, science and research parks, and technology transfer and commercialization centers.

Outlook for FY 2017: Going forward, we expect that clean energy (including renewable energy, clean energy manufacturing, grid modernization and energy efficiency) and advanced manufacturing (including nanotechnology, robotics, advanced materials and cyber-physical systems) will remain priorities. Other areas of potential priority in the coming fiscal year include precision medicine, big data in health, cyber security and Federal technology commercialization.



TECHVISION21 can help you pinpoint sources of Federal funding that can support your research, technology and economic development objectives. We can work with you to develop a Federal funding strategy, engage with program and funding decision-makers, develop project concepts, identify appropriate partners, and to organize and write high quality grant and funding proposals.

We have helped numerous clients: raise their visibility among government policy makers and program managers; tangibly advance their policy and program interests in Washington; and secure multi-million dollar appropriations, grants, and contracts from the Federal government to support a wide variety of R&D, technology, renewable energy, homeland security, and economic development projects. We have worked successfully with many Federal agencies, including the Departments of Commerce, Energy, Defense, Education, Labor, and Agriculture, as well as the National Science Foundation.



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