

EPA Small Business Innovation Research Opportunity for Environmental Technology

The EPA SBIR Program assists small businesses with no more than 500 employees develop and commercialize new environmental technologies. Phase I awards of up to \$80,000 over 6 months are used to investigate the scientific merit and technical feasibility of the proposed technology. Only Phase I businesses compete for Phase II awards of \$300,000 - \$370,000 over two years to continue technology development toward successful commercialization. Through this two phased approach, EPA can determine whether the research idea, often on high-risk advanced concepts, is technically feasible, whether the firm can do high-quality research, and whether sufficient progress has been made to justify a larger Phase II effort.

The next Environmental Protection Agency (EPA) SBIR Phase I Solicitation will open on March 25, 2010 and close on May 11, 2010. This SBIR Solicitation will be posted on the EPA Website (www.epa.gov/ncer/sbir) on March 25, 2010. Previous EPA solicitations are also available at this website. The Solicitations provide detailed descriptions of EPA technology needs. Questions about EPA environmental technologies can be addressed to Jim Gallup (gallup.james@epa.gov) or April Richards (Richards.april@epa.gov) or James Gentry (gentry.james@epa.gov).

NSF Small Business Innovation Research Opportunity for Environmental Technology

There are additional opportunities for SBIR funding of environmental technologies in the **National Science Foundation (NSF)** SBIR Phase I Solicitation. The NSF Solicitation will open in March 2010 and close in early June 2010. Nearly all of EPA's technology needs will be eligible under this NSF Solicitation. EPA technology topics and the corresponding NSF Topics from their 2009 SBIR Solicitation are summarized below. NSF topics include Biotechnology (BT), Chemical Technology (CT), Information and Communication (IC), Nanotechnology (N), Advanced Materials (AM) and Manufacturing (M).

EPA TECHNOLOGY NEEDS (TOPICS)

Green Building
Innovation in Manufacturing
Nanotechnology
Greenhouse Gases
Drinking Water and Wastewater
Water Infrastructure
Air Pollution
Vehicle Emissions and Biofuels
Waste Management
Homeland Security
Monitoring and Remote Sensing

Corresponding NSF TOPICS

NSF Topics CT4
NSF Topics M2, N2
NSF Topics N1, N2
NSF Topics CT1
NSF Topics BT1, BT3, BT5
NSF Topics IC4, AM4
NSF Topics BT3, CT3, CT5
NSF Topics BT6, CT1
NSF Topics BT7, CT4, AM4
NSF Topics BT3, BT5
NSF Topics BT1, BT3, BT5

The National Science Foundation SBIR Phase I Solicitation will close in early June 2010. Small businesses should carefully read the solicitation and comply with the proposal instructions, electronic FastLane application submission procedures, administrative requirements and technical issues. The NSF SBIR Solicitation is not identical with the EPA SBIR Solicitation. Businesses

submitting proposals to NSF must comply with NSF (not EPA) application requirements. If equivalent or overlapping proposals are submitted to both EPA and NSF and you receive an NSF award, you will need to withdraw your EPA proposal. NSF is expected to make awards before EPA, giving companies an opportunity to win the larger NSF award while still having the opportunity to be funded by EPA if unsuccessful with NSF. Please visit the NSF Website at:

www.nsf.gov/eng/iip/sbir

The NSF contacts are: Greg Baxter (gbaxter@nsf.gov) and Josephine Yuen (jyuen@nsf.gov) for Biotechnology and chemical technologies (BT/CT), a Juan Figueroa (jfigueroa@nsf.gov) for IC4 Components and Bill Haines (whaines@nsf.gov) and Grace Wang (jiwang@nsf.gov) for Nanotechnology, Advanced Materials and Manufacturing (N/AM/M).

The linkage between NSF Topics and EPA technology needs is summarized below.

In many cases EPA needs do not correspond exactly to NSF Topics but almost all EPA needs can find a corresponding NSF Topic. NSF Topics are very broad and include the descriptive phrase “technologies include but are not limited to ...” to allow small businesses to submit proposals that stimulate technological innovation. Most environmental technologies are in the following NSF Topics: Biotechnology (**BT**), Chemical Technology (**CT**), Information and Communication (**IC**), Nanotechnology (**N**), Advanced Materials (**AM**) and Manufacturing (**M**). Visit the NSF Website for complete descriptions of all SBIR Phase I Topics.

Topic **BT1** -- Agricultural Biotechnology including pathogen and toxin diagnostics.

Topic **BT3** -- Environmental Biotechnology and Environmental Technologies including methods to reduce human ecological and environmental impacts, microbial contamination sensing&control, removal of toxic compounds, bioremediation, water and wastewater treatment, pollutant monitoring and improvement of the environment and decreasing environmental impacts of humans on the planet.

Topic **BT5** -- Biosensors including real-time sensors, nanobiotechnology-based sensors, and tracking of microbial contamination in wastewater treatment.

Topic **BT6** -- Bioenergy Technologies including biomass conversion, biodiesel products and improvements, processing of biofuels waste streams.

Topic **BT7** -- BioBased Materials including chemicals/polymers from biobased feedstock.

Topic **CT1** -- Energy Supply and Use including reduction of engine emissions, reduction of Greenhouse Gases.

Topic **CT3** -- Energy Transportation and Fuels including SO_x/NO_x reduction.

Topic **CT4** -- Technologies for Sustainability including better recycling methods, novel products from recycled materials and Green Building technologies.

Topic **CT5** -- Separation Technologies - environmentally benign liquid and gas separation.

Topic **IC4** -- Components – Smart transportation and infrastructure sensors.

Topic **N1** -- Nanoelectronics – Use of devices with nanotubes, nanowires, quantum dots.

Topic **N2** -- Nanomanufacturing – Transfer of nanotechnology to industrial applications.

Topic **AM4** -- Materials for Infrastructure and Sustainability – Corrosion-resistant materials, coatings, improvements to life-cycle performance of infrastructure materials, new materials for purifying air & water, systems using recycled materials.

Topic **M2** -- Manufacturing Processes – Emphasis on environmentally benign techniques.

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www.nsf.gov/eng/iip/sbir