

EPA-SBIR Mission

- EPA: Protect human health and the environment
- EPA SBIR: Support development and commercialization of innovative technologies to meet Agency's mission



EPA SBIR Budget & Awards

- Award Budget ~ \$4.2 M
- Awards contracts
 - Phase I: Proof of Concept
 - \$100,000
 - 6 months
 - Phase II: Develop & Commercialize Technology
 - \$300,000 (+Commercialization Option of \$100,000)
 - 2 years
- EPA provides commercialization support to all Phase I and Phase II Companies



Annual Solicitation

- One solicitation per year
- Next solicitation scheduled for Summer 2015
- Open for 45 days
- Information at www.epa.gov/ncer/sbir



DRAFT 2015 Solicitation Topics



- Air and Climate
 - Lab-on-a-chip sensors for organic pollutants in homes
- Integrated Cookstove-Heating-Electricity Generation for Small Homes
 - Integrated cooking, heating, and electric power generation
- Manufacturing
 - Non-toxic and biodegradable plastics
- Toxic Chemicals
 - Less toxic coatings
- Water
 - Resource and/or Energy Recovery
- Building Materials
 - Innovative Construction Materials
- Homeland Security
 - Decontamination of railroad and subway cars

New Electronic Submission System

- Now using FedConnect for electronic submissions
- Please start early to register your company with FedConnect
- Register at: www.fedconnect.net/FedConnect/

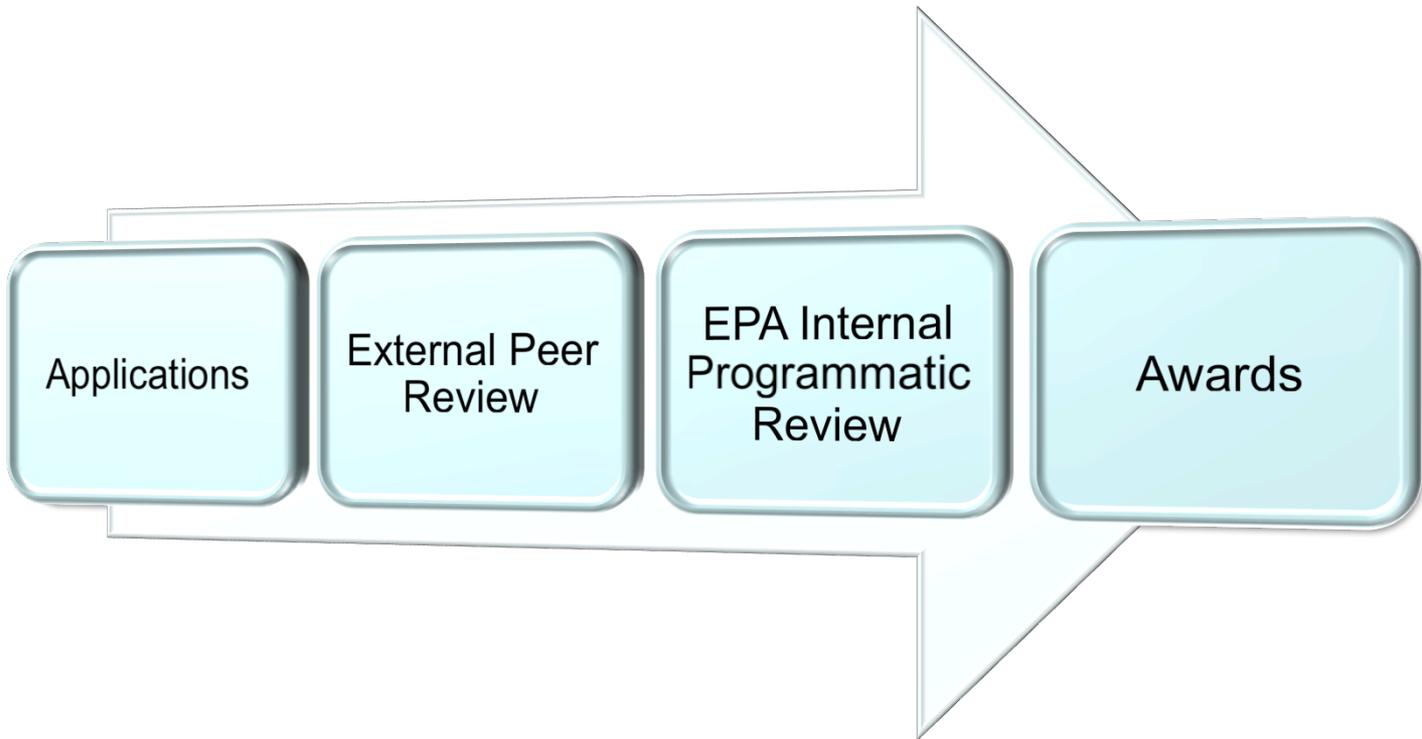




Required Registrations

- [Dun and Bradstreet Universal Numbering System \(DUNS\)](#) - All registrations require that applicants be issued a DUNS number. After obtaining a DUNS number, applicants can begin both SAM, and SBA Company registry. The same DUNS number must be used for all registrations, as well as on the proposal.
- [SBA Company Registry](#) – **New requirement.** See solicitation for instructions on how to register and how to attach proof of registration to your proposal package. Applicants must have a DUNS number to complete this registration. SBA Company registration is **NOT** required before SAM.
- [System for Award Management \(SAM\)](#) (formerly CCR) – Applicants must complete and maintain an active registration, **which requires renewal at least annually.** The renewal process may require as much time as the initial registration.
- [FedConnect](#)– **New process.** Electronic applications system for EPA SBIR. FedConnect is a web portal that connects agencies and vendors to streamline the process of doing business with the federal government.

Proposal Evaluation and Selection



EPA External Peer Review (Phase I)

- Ratings
 - Excellent, Very Good, Good, Fair, Poor
- Review Criteria
 - Commercialization Criteria:
 - Need for Technology
 - Management and Technical Capabilities
 - Disruptive Potential
 - Technical Criteria:
 - Technical Soundness
 - Demonstration/Performance
 - Life Cycle (environmental) Impacts

EPA Internal Relevancy Review

- Review only proposals rated “Excellent” and “Very Good”
- Three Criteria:
 - EPA Needs and Program Priorities
 - Significant Environmental Benefits (Sustainability)
 - Broad Application and Impact

Submitting a Successful Proposal

- Read solicitation carefully
- Put together an effective team (technical & business expertise)
- Develop a quality proposal which
 - is responsive to a specific topic
 - has a strong abstract
 - has a realistic work plan
 - addresses evaluation criteria
 - demonstrates innovation, is a “game changer”
 - shows potential for commercialization
 - addresses cost, end-users/markets, etc.
- Submit proposal well before deadline



Other SBIR Agencies that Support Environmental Technologies

- National Science Foundation (NSF)
- National Institute of Environmental Health Sciences (NIEHS)
- Department of Energy (DOE)
- United States Department of Agriculture (USDA)
- National Oceanic and Atmospheric Administration (NOAA)



EPA SBIR Success Stories



Ecovative

Albany, NY

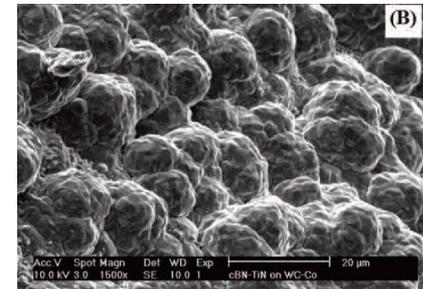
- Developed “Mushroom Materials” to replace hydrocarbon-derived synthetics in packaging, insulation, and structural cores
- Utilizes fungal mycelium grown on agricultural waste
- Biodegradable/Compostable
- Featured on July 2011 cover of *Packaging World* and May 20, 2013 *New Yorker*
- Eben Bayer & Gavin McIntyre named on Forbes 2015 “30 under 30” list in reinventing manufacturing



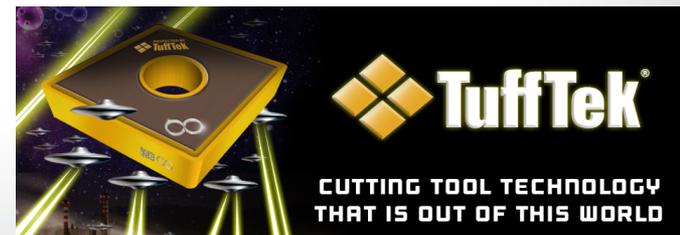


NanoMech's TuffTech ®

- Based on principles of biomimicry, NanoMech has created a chemical free nanostructured coating for cutting tools
- The coating technology has applications in numerous markets, including manufacturing, biomedical, electronics, and military
- The coating can improve tool life by 300 percent or more in certain applications



NanoMech is a recipient of R&D Magazine's R&D 100 Award for its TuffTek® coating technology for environmentally friendly cutting tool Manufacture. They also one the Tibbett's award in 2014.





Program Highlights

- Small program with important mission – saving the planet
- Want our companies to succeed commercially
 - Provide commercialization support to all Phase I and Phase II companies
 - Help communicate success through website, social media
 - Make connections within and outside of EPA



For More Information...

- EPA SBIR
 - website: www.epa.gov/ncer/sbir
 - factsheet: <http://www.epa.gov/ncer/sbir/2015factsheet.pdf>
- Government Wide Program: www.sbir.gov
- Contact information:
 - April Richards richards.april@epa.gov 703-347-8103
 - Greg Lank lank.gregory@epa.gov 703-347-8128