Features of USDA SBIR Program

- Award Grants Only; Awards Based on Scientific and Technical Merit; Ideas are Investigator-Initiated
- 10 Broad Topic Areas
- Funds Allocated to Topic Areas in Proportion to Number of Proposals Received
- Phase I Grants = 6 Months/$80,000
- Phase II Grants = 2 Years/$300,000
- Proposals Reviewed by Confidential Peer Review Using Outside Experts From Non-profit Organizations
- All Applicants Receive Verbatim Copies of Reviews
- No Gap in Funding Between Phase I and Phase II
Topic Areas

- Forests & Related Resources
- Plant Production & Protection
- Animal Production & Protection
- Air, Water & Soils
- Food Science & Nutrition
- Rural & Community Development
- Aquaculture
- Industrial Applications
- Marketing & Trade
- Wildlife
Technology Areas Supported by USDA/SBIR Program

- Information Technology
- Robotics
- Electronics
- Biotechnology
- Nanotechnology
- Microelectro Mechanical Systems (MEMS)
- Acoustics
- Remote Sensing
- Genetic Engineering
- Material/Coatings
- Food Safety
- Biofuels
- Machine Vision
- Precision Agriculture
- Engineering
- Physics
- Chemistry
SBIR Bio-Based Materials Awards

Phase I

• Wood Based Advanced Ceramics Materials
• Improved Wood and Ceramicrete Composite Building Material
• Evaluating Establishment of Native Warm Season Grasses for Use in Automotive Biocomposites
SBIR Bio-Based Materials Awards

• Biodiesel Production from Seed Crops Fertilized with Municipal Residuals
• Economic Feasibility of Manufacturing Fuel Pellets from Cotton By-Products
• Low Cost Processing of Cotton Gin Byproducts for Use as High Value Establishment Mulches for Ornamental and Grass Seed
SBIR Bio-Based Materials Awards

• Efficacy of Recombinant Redox Enzymes from Corn in Wood and Textile Applications
• Foam Fractionation of the Sweet Potato into High-Valued Products
• Chemical-Resistant Glass Fiber Reinforced Composites Incorporating Bio-Based Ion Exchangers Derived from Agricultural Residues and Starches
SBIR Bio-Based Materials Awards

- Cellulases for Biomass Conversion from the Transgenic Maize Production System
- Novel Affordable Composites from Renewable Resources
- Sonically-Intensified Mixing for Enhanced Plant Cell Culture Productivity
SBIR Bio-Based Materials Awards

Phase II

- Formation of a Structural Core Material from Wood Residuals and Recycled Fiber
- Wood Strand Erosion Control Material
- Commercial Introduction of Building Construction Products Making Value-Added Use of Abundant Agricultural Residues
SBIR Bio-Based Materials Awards

- Innovative Enzymatic Reactor for Production of Alternative Fuels
- Extractive Fermentation for Production of Lactic Acid from Corn Starch by Filamentous Fungi Immobilized in Fibrous Bed Bioreactor
- Phase Change Materials from Fats and Oils
SBIR Bio-Based Materials Awards

• Modified Soybean Hulls for Heavy Metal Removal
• A Kenaf Fiber Based End-Grain Sandwich Core Material for Composites
### HISTORY OF USDA SBIR FUNDING

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<th>Budget (MM)</th>
<th>Phase I</th>
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Solicitation/Proposal Schedule: FY 2004/2005

- 2005 Solicitation Released 6/1/04
- Proposal Deadline Date is 8/31/04
- Panels Meet in January & February of 2005
- Decisions Made by 3/1/05
- Phase I Grant Period is from 5/15/05 to 11/30/05
- 2004 Phase II Application Deadline is 2/6/04
USDA SBIR HOMEPAGE
www.reeusda.gov/sbir

- Program Information
- Solicitation
- Technical Abstracts
- Find the Expert (CRIS and ARS)
- Link to SBA and Other SBIR Programs
- Upcoming SBIR Conferences
- Overhead Information