

ENVIRONMENTAL PROTECTION AGENCY SBIR PROGRAM



INNOVATIVE SOLUTIONS FOR
ENVIRONMENTAL PROBLEMS



FEDERAL AGENCIES

- Department of Agriculture (DOAg)
- Department of Commerce (DOC)
- National Institute of Standards & Technology (NIST)
- National Oceanic & Atmospheric Admin. (NOAA)
- Department of Education (DOEd)
- Department of Energy (DOE)
- Department of Homeland Security (DHS)
- Department of Transportation (DOT)
- National Aeronautics & Space Admin. (NASA)
- National Institutes of Health (NIH)
- National Science Foundation (NSF)

AGENCY SBIR MISSION

- Foster Development of New Cutting-Edge Environmental Technologies
- EPA Programs Use SBIR Technologies to Reduce Pollution
 - Reduced Capital and O&M Costs
 - Controls More Efficient and Effective
- Protecting Human Health
- Safeguard the Environment
- Improving American Economy

FY 2005 EPA SBIR BUDGET

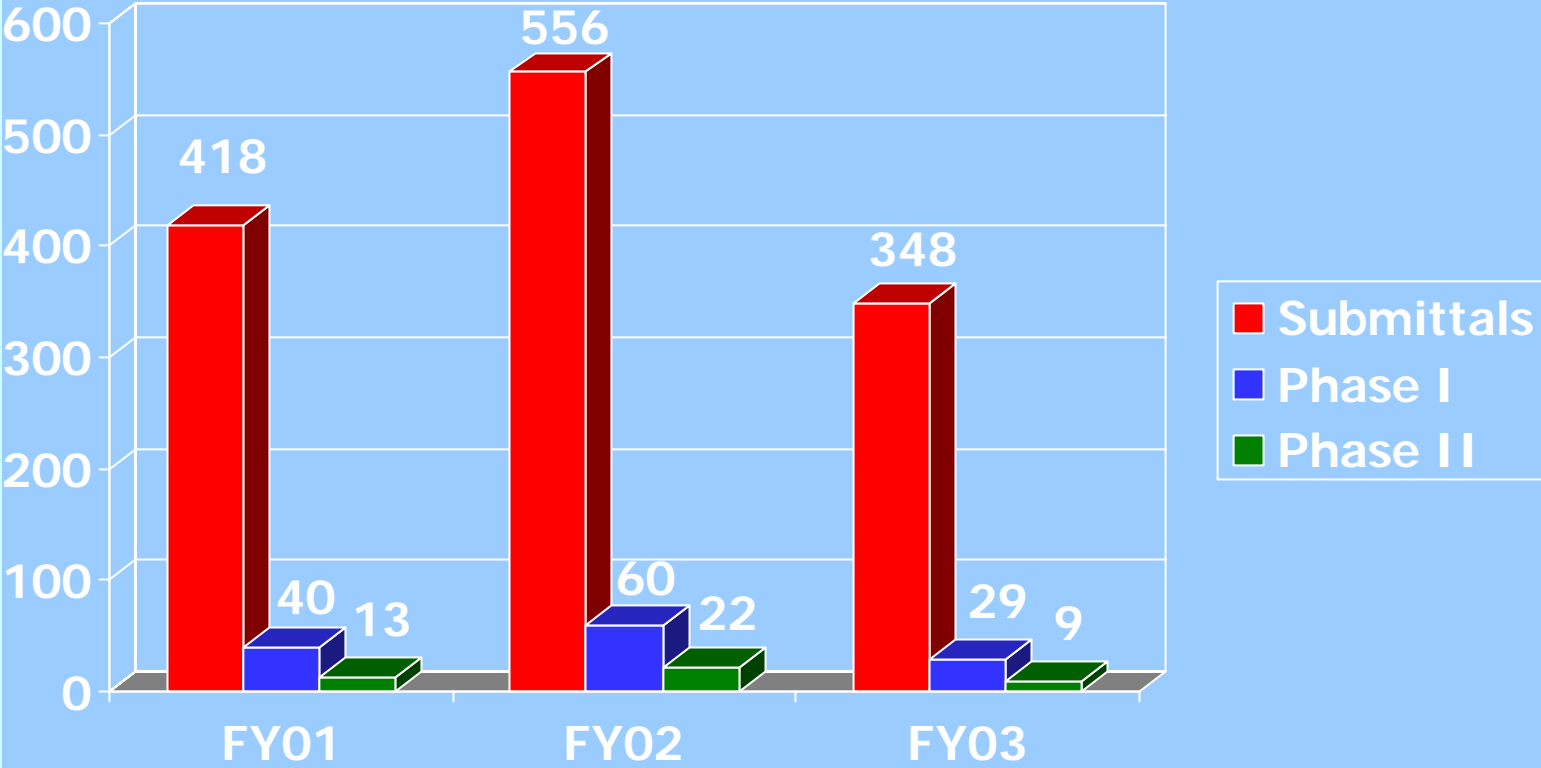
\$ 6 M



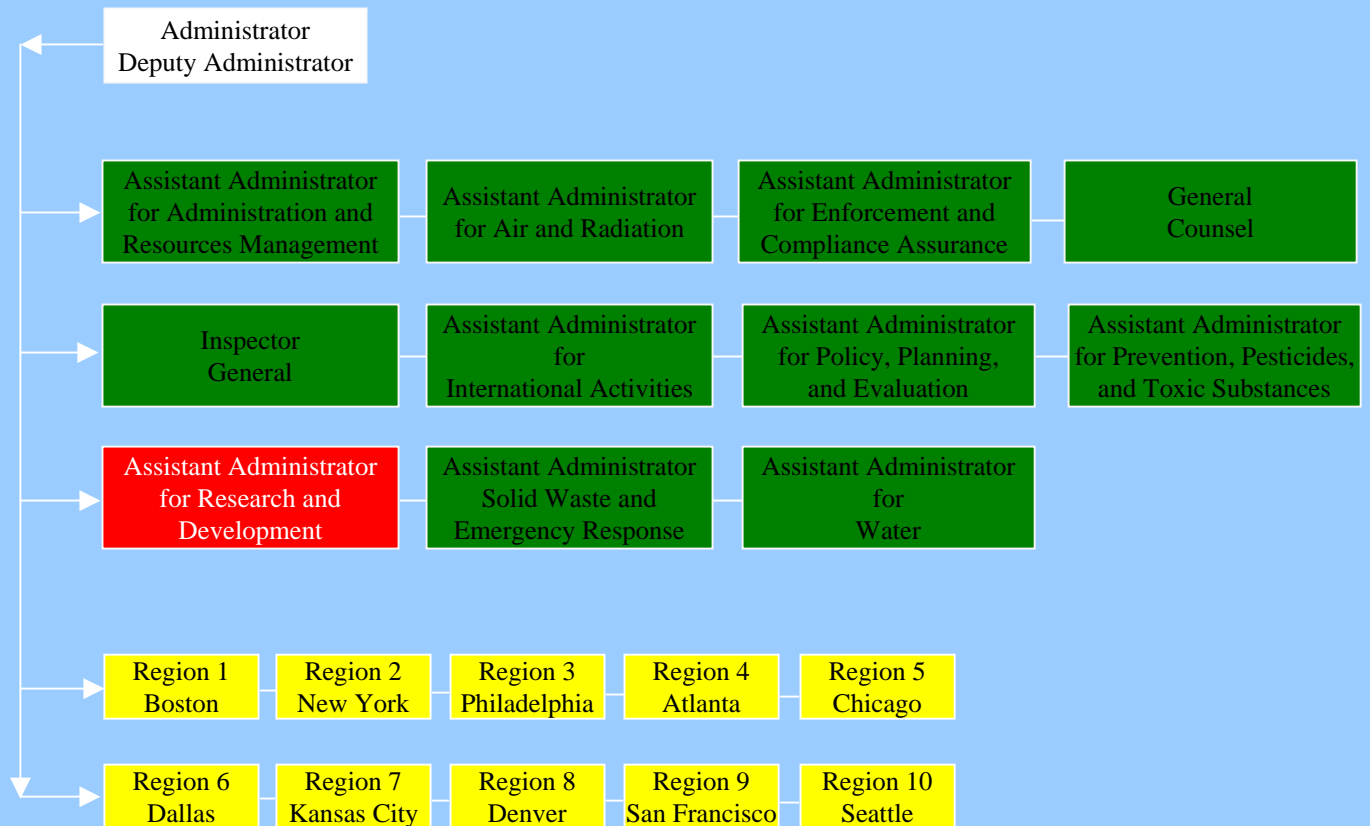
Phase I Contracts: \$70,00K (6 months)

Phase II Contracts: up to \$345,000 (15 mo)

SBIR Success Rate



EPA ORGANIZATION CHART



SOLICITATION SCHEDULE

EPA -- Phase I Solicitation

- OPEN – March 24, 2005
- CLOSE – May 25, 2005

Solicitation Topics for 2005

- Mid-Atlantic (EPA Region III)
Environmental Problems
- Pacific Northwest (EPA Region X)
Environmental Problems
- Monitoring and Remediation of
Hazardous Waste Sites (EPA/OSWER)
- Critical EPA Technology Needs (from
Environmental Technology Council)

Mid-Atlantic (EPA Region III) Environmental Problems

- Poultry and CAFOs and CWD
- Drinking Water and Lead Service Lines
- Beach Pollution and Pollutant Markers
- In-Situ Sediment Cleanup

Pacific Northwest (EPA Region X) Environmental Problems

- Operating and Inactive Mining
- Air Pollution
- Tribal Environmental Health
- Hazardous Waste Management
- Alaska Oil and Gas

Monitoring and Remediation of Hazardous Waste Sites

- Hazardous Waste Monitoring
- Solid Waste Recycling
- Waste Gasification

FY 2005 Research Topics

- Hazardous Waste Monitoring
 - Air Emission Monitoring
 - Contaminated Sediments
 - Field Test and Lab Instruments
 - Indoor Air Quality
 - In-Situ Monitoring
 - Subsurface Detection Systems
 - Inspection/Leak Detection of USTs

Critical EPA Technology Needs

(from Environmental Technology Council)

- Innovation in Manufacturing
- Nanomaterials
- Pollution Prevention
- Water and Wastewater Management
- Green Buildings
- Safe Buildings
- Drinking Water & Wastewater Security

FY 2005 Research Topics

- Pollution Prevention
 - Automobile and Other Green Supplier Networks
 - Hospitals for a Healthy Environment
 - Fragrances
 - Waste Minimization (Mercury/Priority Chemicals)

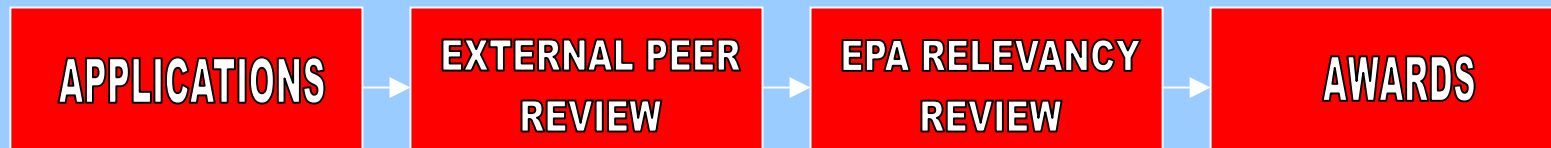
FY 2005 Research Topics

- Safe Buildings
 - Building Decontamination
 - Better Building Design
 - Treatment of Contaminated Materials
 - Biological/Chemical Field Kits

FY 2005 Research Topics

- Drinking Water and WasteWater Security
 - Water Protection Technologies
 - Wastewater Treatment Protection Systems
 - Biological/Chemical Monitoring
 - Early Warning Security “Smart” Systems

SBIR EVALUATION AND SELECTION



External Peer Review

- Excellent, Very Good, Good, Fair or Poor
Five Criteria (Equal Weight)
 - Scientific / Technical Quality and Soundness
 - Uniqueness and Originality
 - Cost and Environmental Benefit
 - Qualifications of Team
 - Commercialization Potential

Relevancy Review

- EPA Internal Program Review
 - Only Review Excellent and Very Good Rated Proposals
 - Three Criteria (Equal Weight)
 - Meets EPA Needs and Program Priorities
 - Significant Environmental Benefits
 - Broad Application and Impact

SBIR Award Schedule

- Phase I Solicitations Open
 - March 24 – May 25, 2005
- Peer Review - September 2005
- Relevancy Review - December 2005
- Phase I Contracts Awarded - February 2006
- Phase II Solicitations Open
 - July xx – Sept xx, 2006
- Phase II Contracts Awarded - March 2007

How To Win An SBIR Award

- Read the Solicitation
- Review Topic Descriptions
- Search EPA Website for Previous Awards
- Understand the Problem and Build a Team
- Brainstorm, Plan and Select Approach

How To Win An SBIR Award

- Develop a Quality Proposal
 - Plan an Outline
 - Realistic Work plan
 - Broaden your Capability
 - Emphasize your Strengths
 - Show the Potential of your Idea
 - Show Clear Path to Commercialization
 - Use Key Figures and Tables
 - Don't Quit – Learn from Losing

How To Win An SBIR Award

- Third Party Independent Evaluation
- Letters of Support
- Excellent Executive Summary

Formula For SBIR Success

- Address Agency Priority Needs
- Environmental Benefits
- Strong Competition / Innovative Proposals
- Technical Abstract
- Work Plan
- Technical Evaluation Criteria
- Relationship to Future Research
- Cost Breakdown

EPA SBIR PROGRAM

- Phase I Solicitation
 - OPEN – March 24, 2005
 - CLOSE – May 25, 2005

EPA WEBSITE

- www.epa.gov/ncer/sbir
- Listing and Abstracts of Phase I and Phase II Awards
- Technology Results
- Other SBIR Agency Environmental Technologies
- EPA SBIR Reports and Publications
- 1-800-490-9194 Telephone Helpline