



Agenda

- Introduction to the USDA SBIR/STTR Program
- Preparing Your SBIR/STTR Application
 - Before You Start
 - Building a Strong Application
 - Understanding the Evaluation Criteria
 - Other Key Information
- Resources
- Q&A

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https://www.usda.gov/non-discrimination-statement

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Introduction to the USDA SBIR/STTR Program

USDA SBIR/STTR Technology Areas

Information **Technology**

Electronics

Biotechnology

Nanotechnology

Acoustics

Remote Sensing

Genetic Engineering

Material/Coatings



Biofuels

Machine Vision

Precision Agriculture

Engineering



Chemistry

Robotics

Physics

Food Safety











Do you have great ideas in these areas?



Forest & Related Resources



Plant Production & Protection (Biology)



Animal Production & Protection



Conservation of Natural Resources



Food Science & Nutrition



Rural & Community

Development



Aquaculture



Biofuels & Biobased Products



Small & Mid-Sized Farms



Plant Production & Protection (Engineering)

USDA SBIR/STTR Eligibility



For-profit company operating in the U.S. + Research performed in the U.S.

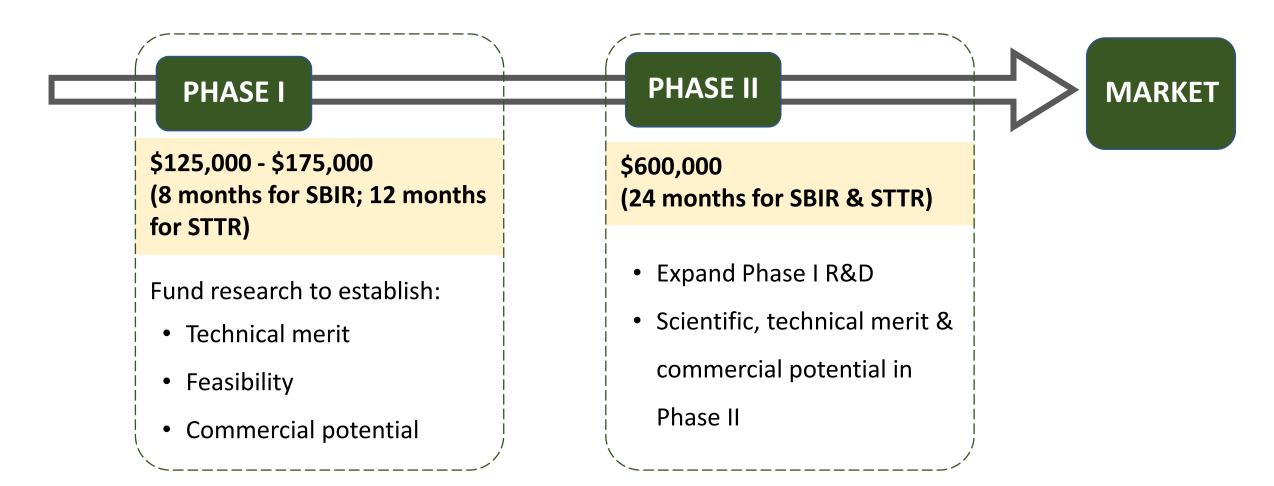


More than 50% owned and controlled by U.S. citizen(s) or permanent resident(s)



No more than 500 employees (including affiliates)

USDA SBIR/STTR Program



Which Program is Right for Me?

Details	SBIR	STTR	вотн
Nonprofit research institution or federally funded R&D center participation	May	Must	Must
% participation of nonprofit research institution or federally funded R&D center	33% or less (Phase I) up to 50% (Phase II)	30 to 60% (Phase I and Phase II)	30 to 33% (Phase I) 30 to 50% (Phase II)
Primary employment of the principal investigator	Must be employed with small business	May be employed with either small business or non-profit research institution	Must be employed with small business
Formal cooperative agreement required outlining intellectual property rights	Not required	Required	Required

SBIR/STTR = Small Business Funding

Applicant must be a **small business**, not research institution or individual.

Award also goes to **small business**, not research institution or individual.



Preparing Your SBIR/STTR Application - Before You Start

Before You Start Your Application

Review Solicitation

Read the Request for Application (RFA) thoroughly! It has all pertinent information, from the deadlines to evaluation criteria.

2)

Determine Topic Area

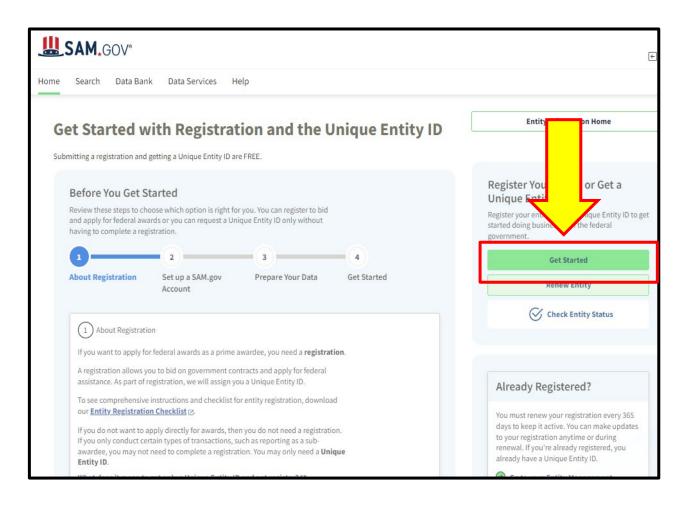
You cannot use one application for multiple topic areas. Select the topic area that aligns best with your project.

3

Registrations

Prior to submission, it is required that you register your business on SAM.gov, Grants.gov and SBIR.gov. Do this early to prevent last minute panic!

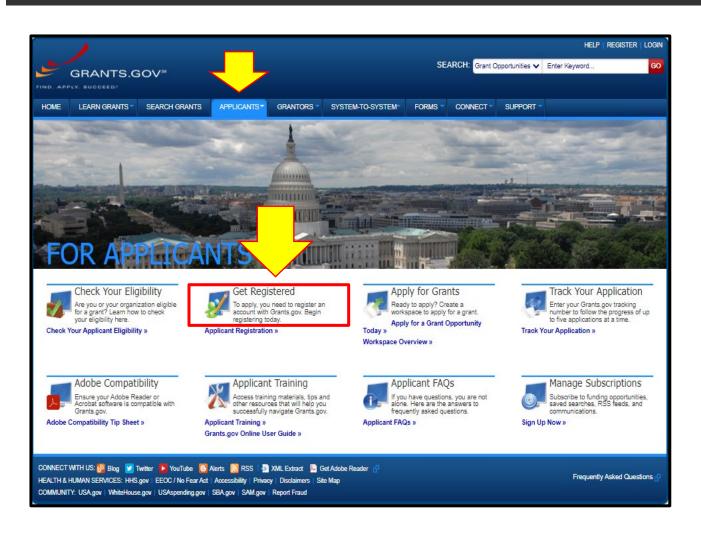
Registration 1/3: SAM.GOV



- Set up SAM.gov account
- Entity registration
 - Obtain a Unique Entity Identifier
 (UEI) number
 - 12-digit alphanumeric identifier required to do business with the federal government
 - Annual updates are needed

https://sam.gov/content/entityregistration

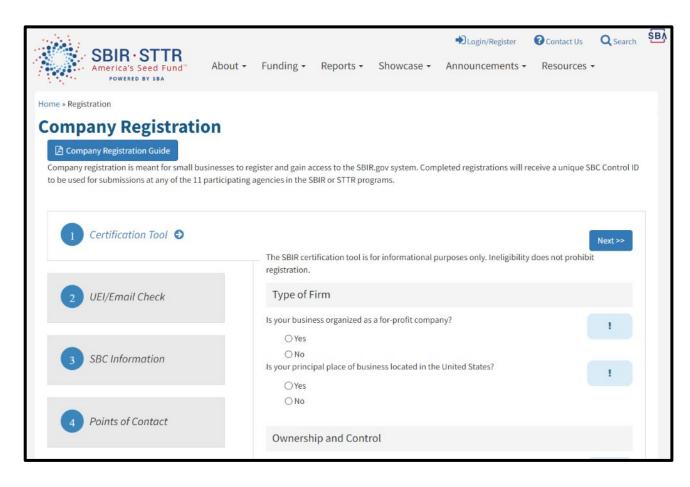
Registration 2/3: GRANTS.GOV



- Click on the Applicants tab
- Click on "Get Registered"
 - Detailed instructions are available on Grants.gov

https://www.grants.gov/web/grants/applicants/registration.html

Registration 3/3: SBIR.GOV



Fill out 5 step registration using the following information

- UEI
- Email address
- SAM.gov Points of Contact
- Company Name, Address
- Ownership and Contact information
- Number of employees
- Points of Contact

https://www.sbir.gov/registration

Points to Remember for Registration

- SAM.gov entity registration can take time, especially if there are issues with your registration that may affect your ability to apply before the funding opportunity close date.
- If your entity is already registered, ensure your registration has been renewed or updated per SAM.gov requirements



Preparing Your SBIR/STTR Application - Building a Strong Application

What USDA SBIR/STTR Program is Looking for

Innovative Ideas

Are you developing a novel technology or an improvement to currently available technology? USDA welcomes high-risk, high-reward projects!

Commercial Impact

Does your technology have potential to reach the market and/or to provide benefits to the society?

Budget/Duration Limits

Phase I awards must stay within budget and duration (\$125,000 or \$175,000 depending on topic area; 8 or 12 months for SBIR and STTR, respectively).

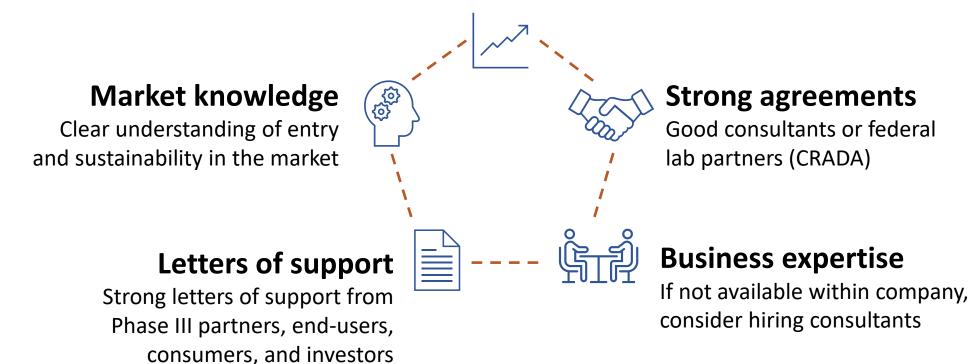
Focus on Research

Phase I projects should focus on proof of concept and consider potential market fit. Please note that Phase I award is a prerequisite for a Phase II.

Key Factors for Success

Innovative Ideas

High scientific/technical merit and commercial potential



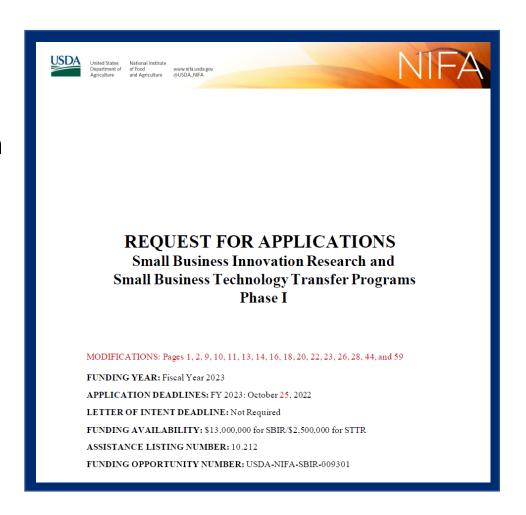
Application Fundamentals

- What is SBIR/STTR?
- What is included in an USDA SBIR/STTR award (funds, duration, etc)?
- When are applications due?
- Who is eligible?
- How can I prepare and submit a funding application?
- What are the key components of an application?
- How will the award be issued and managed?
- Who can I talk to about this solicitation?
- What do these words mean?

You will find answers to all these questions within the RFA!

Request for Application (RFA)

- Become a "student" of the RFA
 - Understand the main goals of the program
 - Attend technical assistance webinars or watch the recordings
 - Understand the instructions outlined in the RFA on how to assemble the proposal
 - Read the RFA!!!
 - RFA is the most important; but be sure to read the NIFA Grant Application Guide, too!



Structure of a Competitive RFA

Eight (8) Main Parts

Executive Summary

+

Part I-Funding Opportunity Description

Part II-Award Information

Part III-Eligibility Information

Part IV-Application and Submission Information

Part V-Application Review Requirements

Part VI-Award Administration

Part VII-Other Information



Key Elements of SBIR/STTR Application

Required

Summary/Abstract

Project Narrative

Budget

Disclosure Form

Other Necessary Items

Key Personnel Bio Sketches

Justification

Conflict of Interest (COI)

Current & Pending Support (C&P)

Bibliography

TABA Request

Valid SBC #

What to Include in Project Summary

- Must be 250 words or less
- Think about how to capture the reviewer's attention
 - Include description of the problem or opportunity, Project objectives, and a description of the effort
 - One paragraph on anticipated results and potential commercial applications of the proposed research
 - Succinct summary of your project, with key information highlighted
- Do not include confidential information
- Template available:

https://www.nifa.usda.gov/application-support-templates

What to Include in Project Narrative

- Must keep it at 17 pages
- Key questions to answer:
 - How does your project align with USDA SBIR/STTR program's priorities?
 - What is the problem/opportunity and why is it important?
 - What are the background, technical approach, and market needs?
 - What results are expected? What are the benefits, the estimated cost, and policy issues that might stand in the way of your success?
 - Is the project scientifically/technically feasible? How?
 - What is your work plan? (Should be detailed)
 - Are there any research efforts that are directly related to your project? How does your project help the impact of the research area?
 - Does your project have market potential? Who are your customers and competitors?

Resubmission



- Trying SBIR/STTR again?
 - Resubmissions should provide response to reviewer feedback from previous application
 - Take the reviewer comments and improve your application
 - Do NOT exceed the ONE-page limit for your resubmission response.
 - ➤ This does not count towards the 17-page Project Narrative page limit.

Tips for Project Narrative

- Provide comprehensive information
- Write the proposal logically and clearly
 - Organize proposal according to outline in RFA or evaluation criteria, whichever is most logical
 - Following the prescribed format helps reviewers find information more easily
- Use tables and figures to help illustrate important points
- Remember the 4 Cs—Compelling, Clear, Concise, and Complete
- Second set of eyes helps! Ask someone else to review your Project Narrative before submitting

What to Include in Budget

Prepare budget with a strong justification

- Keep in mind the budget and performance period limits
 - Budget: \$125,000 or \$175,000, depending on topic area
 - Period of performance: 8 or 12 months for SBIR and STTR, respectively
- Project work outsourcing
 - SBIR: maximum 33% of the project
 - STTR: at least 30% of the project, up to 60%
 - Both: 30 to 33% of the project
- Salaries require name and title of each person and how the requested salary was determined
- Include fringe benefits, equipment, materials & supplies, consultants, etc.
- Fee for profit allowable (not to exceed 7%)

What to Include in Additional Forms

- Letters of support
- Facilities and instrumentation
- Key personnel bio sketches
- Budget justification
- Subcontract information if needed
- Conflict of Interest List
- Current and Pending

Fill out forms completely and correctly!



Preparing Your SBIR/STTR Application - Understanding the Evaluation Criteria

- 1. Phase I Scientific and Technical Feasibility
- 2. Market Potential
- 3. Importance of the Problem
- 4. Investigator and Resource Qualification
- 5. Budget
- 6. Duplication

Tip!

Understanding these review criteria will help you craft a stronger funding application!

1.	Pha	ase I Scientific and Technical Feasibility
		Do you clearly describe the project objectives and outcomes?
		Is your approach innovative, original, suitable, and feasible?
		Do you clearly state the expected results in a SMART (Specific,
		Measurable, Achievable, Relevant, Time-bound) way?
		Does your project fill critical knowledge gaps?
		Have you done background research and performed literature reviews?
		Do you have access to facilities, equipment, or expertise?

2.	Marl	ket	Potei	ntial	
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- Why should USDA SBIR/STTR support your project? What type of marketable outcome will your project yield?
- Do you have a thorough understanding of your target market?
- Does your team have the technical and business skills to go to market?
- ☐ Have your successfully commercialized a product before?
- ☐ Have you started talking to relevant stakeholders? Can they provide letters of support? If not, can you provide a justification?

3.	Im	port	cance of the Problem
		Wł	ny is the problem that your project is addressing important?
		Wł	nat type of public interest can your project offer?
		Do	es your project address or achieve any of the following goals?
			Develop sustainable agricultural production systems
			Protect natural resources and the environment
			Create a safe, nutritious and affordable food supply
			Develop value-added food and non-food products from agricultural materials
			Enhance global competitiveness
			Enhance economic opportunity and quality of life, especially for people in rural areas

4.	Inv	estigator and Resource Qualifications
		Who are the key members and what are their roles?
		Do your team members have the right expertise (scientific/business)?
		Do you have the Project Director resumes with work experience?
		Do you have sufficient personnel, facilities, and instruments?
		How do you plan to manage your project?
		If you have consultants or CRADA cooperators, have they given you a
		written confirmation to participate in your project?

Work with Federal Research Partner

CRADA

Cooperative Research and Development Agreement

- Develop a CRADA with a Federal Lab or Federal License innovation
- CRADA is a factor considered in the application review process
 - If two or more applications are of equal merit, CRADA will be an important consideration.

SBIR/STTR Evaluation Criteria

Demonstrate your project's fit in your application. Below are some questions to address when preparing your SBIR/STTR funding application.

- 5. Budget
 - ☐ Is your budget within limit? (\$125,000-\$175,000)
 - Do you provide detailed breakdown on how you plan on using the funds?

SBIR/STTR Evaluation Criteria

Demonstrate your project's fit in your application. Below are some questions to address when preparing your SBIR/STTR funding application.

- 6. Duplication
 - ☐ Is your project original and has not been conducted by you or a different entity?
 - What makes your project unique from others?



Preparing Your SBIR/STTR Application - Other Key Information

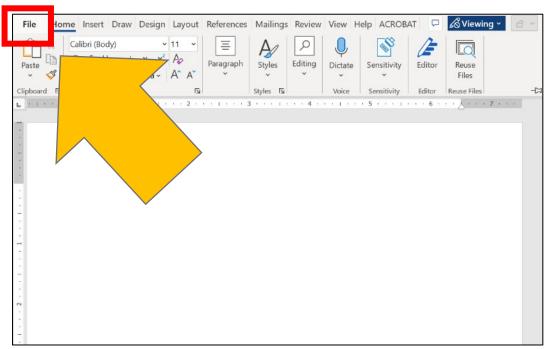
Formatting is IMPORTANT!

All forms must be in **PDF** format.

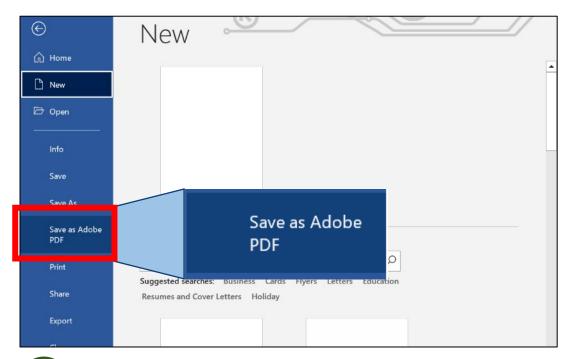


- Margins: 1 inch
- Font: no less than 12 point (Times New Roman)
 - Table and Figure Fonts: no less than 11 point (Times New Roman)
- Line spacing: 1.5
- Format: PDF (no other file format allowed)
- Page Limits: 17 pages for Project Narrative

How to Create a PDF



Go to "File" in the Microsoft Word top menu (Upper left corner of your document)



Click on "Save as Adobe PDF"

Sample Application Prep Timeline

1 year to deadline

Start preparation and finish all registrations. Read previous RFA to build an understanding of what USDA SBIR/STTR is looking for.

6 months to deadline

Reach out to USDA SBIR/STTR team and talk to a National Program Leader to discuss your project fit to a topic area.

4 months to deadline

Secure partners, contractors, and consultants. Get letters of support to include in the application.

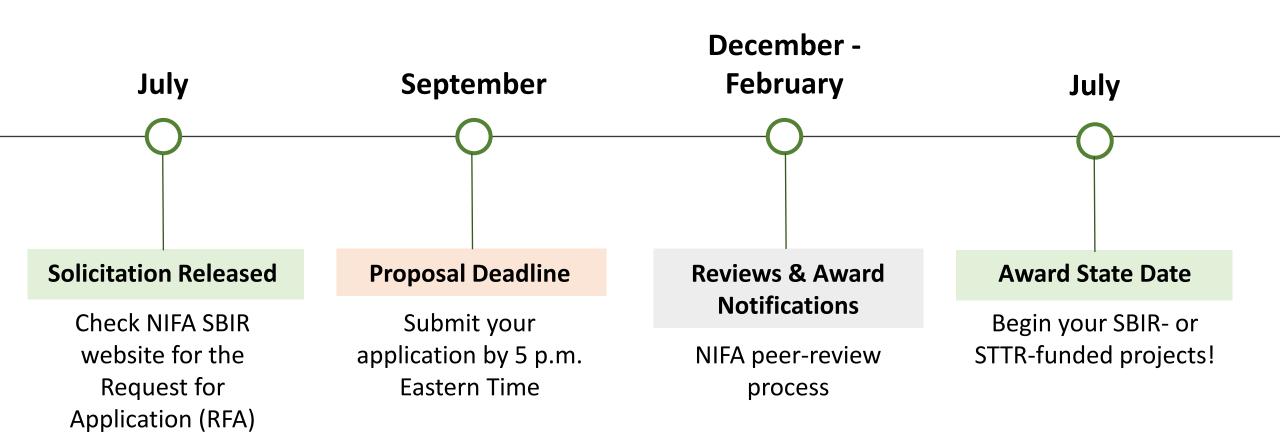
2 months to deadline

Thoroughly review this year's RFA and start writing your application.

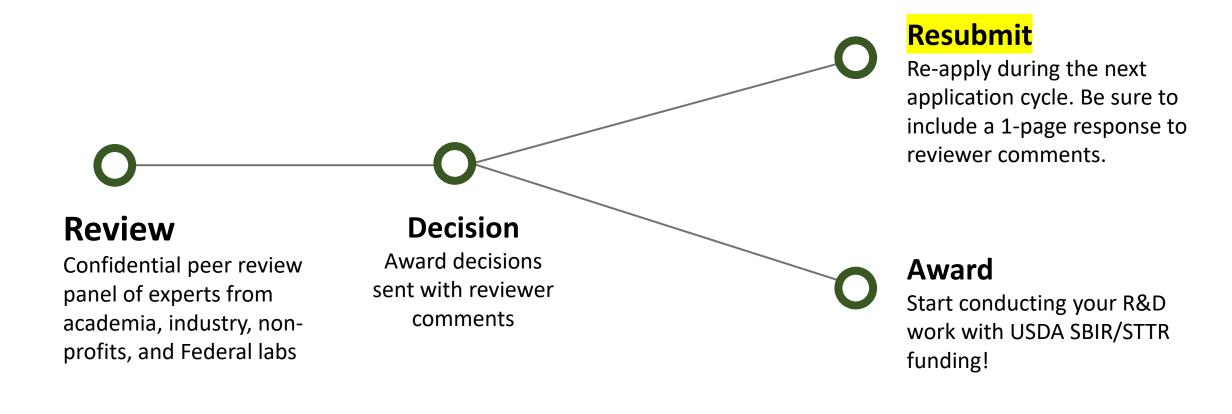
1 week to deadline

Submit application to avoid any last-minute technical issues.

Application to Award Timeline (Phase I)



SBIR/STTR Review Process



SBIR/STTR Success Rate (Phase I)



Things to Remember

- ✓ Provide a vision: What is the market opportunity?
- ✓ Sell the **importance** of your project and alignment to USDA priorities.
- ✓ Provide a **detailed** experimental plan.
- ✓ Provide insight into commercial potential.
- ✓ Show connectivity with the **communities**.



Application Preparation Resources

Application Prep Resources



NIFA Grant Application Guide



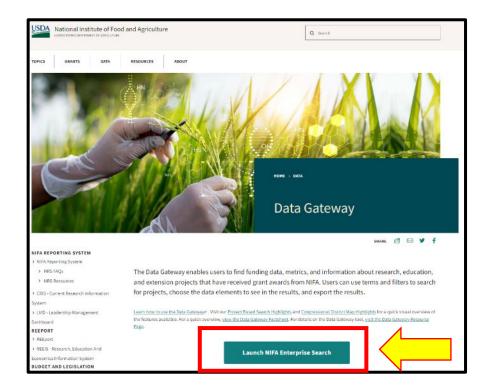
USDA SBIR/STTR Website FAQ



USDA SBIR Application Tutorial

Check Previously-funded Projects

- NIFA SBIR- and STTR-funded projects from previous years
 - NIFA SBIR/STTR Website: https://www.nifa.usda.gov/grants/programs/sbir-sttr/sbir-topic-areas
 - NIFA Data Gateway: https://www.nifa.usda.gov/data/data-gateway





Project Details	Financial Details	Advanced Search	Annual Reports on Planned Programs
Search these term	S		
Search in these fie	lds		

Other Additional Resources

- Meet with USDA SBIR/STTR Staff
 - Attend information sessions
 - One-on-one meetings
 - Contact NPL to discuss topic area-project fit
- Local Resources
 - FAST Program (https://www.sbir.gov/about-fast)
 - Funding to increase SBIR/STTR awards to women, socially/economically disadvantaged individuals, and small businesses in underrepresented areas - typically rural states
 - Small Business Development Centers (<u>https://www.sbir.gov/local-assistance</u>)
 - Provides free business consulting and low-cost training services; at least one per state
 - SCORE (<u>https://www.score.org/</u>)
 - Find business mentors in your area or attend entrepreneurship workshops

Contact Us!

USDA SBIR/STTR Program Website	https://nifa.usda.gov/sbir
Program Email	SBIR@usda.gov
Researcher-Business Match Inquiry	USDASBIR@icf.com

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