

UPCOMING EVENTS for SAgE INNOVATION

Identifying Solicitations and How to Develop a Quad Chart

Virtual | July 8 | 1 – 2:30 p.m.

OnRamp Agriculture Conference

Virtual | July 15

SBIR Week

Virtual | July 19 – 23

- Resources for Innovation from NeDED (July 20 | 9-10 a.m.)
- Cuss and Discuss (July 22 | 9-10 a.m.)

<https://www.unomaha.edu/nebraska-business-development-center/news/events/2021/07/tech-07-19-21-sbir-week.php>

HOMEWORK

NEXT STEPS

- Identify agencies that have funded innovations like yours.
- Research funding priorities, then find and contact relevant program managers.
- Develop quad charts and/or other supporting document.

Phase

- ☐ Phase I (210)
- ☐ Phase II (88)

Program

- ☐ SBIR (263)
- ☐ STTR (35)

Year

- ☐ 2019 (2)
- ☐ 2018 (7)
- ☐ 2017 (14)
- ☐ 2016 (11)
- ☐ 2015 (10)
- ☐ 2014 (10)
- ☐ 2013 (6)
- ☐ 2012 (11)
- ☐ 2011 (12)
- ☐ 2010 (15)

State

- ☐ Michigan (3746)
- ☐ Minnesota (2488)
- ☐ Mississippi (252)
- ☐ Missouri (1003)
- ☐ Montana (736)
- ☒ Nebraska
- ☐ Nevada (453)

The broader impact/commercial potential of this project is the development of drone-based technology to manage fires more safely, efficiently, and effectively. Wildfires cause hundreds of billions of dollars in annual damages in the United States. As the size and number of wildfires increases, prescribed fires have emerged as one of the most cost-effective tools to reduce catastrophic damage by re ...

SBIR Phase I 2019 National Science Foundation

Pole-based solar mounting and tracking system for use in cattle production

SBC: *FarmAfield Labs, LLC* Topic: 12e

Rural areas in the United States have under-developed solar power capabilities relative to urban areas due to challenges matching energy demand centers with underutilized land and consequent cost challenges related to smaller installations that lack economies of scale. This project addresses these problems by proposing solar installations that operate synergistically with livestock production oper ...

SBIR Phase I 2019 Department of Energy

Multifunctional Antioxidant to Prevent Noise-Induced Hearing Loss

SBC: *Therapeutic Vision, Inc.* Topic: NIDCD

Noise induced hearing lossNIHLis the most common occupational disease for which no clinically effective drug is availableSince NIHL involves oxidation linked loss of sensory hair cells and auditory neurons in the cochleathere is a need for potent and effective antioxidants that offer protection to these tissuesIn preliminary studies we have observed that the orally administered multifunctional ant ...

SBIR Phase I 2018 Department of Health and Human Services

Seromic Mucin Signature for the Early Diagnosis of Pancreatic Cancer

SBC: *Sanguine Diagnostics And Therapeutics, Inc.* Topic: 102

ABSTRACT Pancreatic cancerPCis an extremely aggressive malignancy with one of the worst prognoses of all cancersWith marked resistance to chemend radiotherapiesurgery is the only curative optionPatients with

SBIR.GOV | Search past awards to see what agencies have funded.



SBIR·STTR
America's Seed Fund
POWERED BY SBA



SBIR Road Tour
SEEDING AMERICA'S FUTURE INNOVATIONS™

Company:

State:

Name:

Email:

Phone:

TECHNOLOGY DEVELOPMENT

Technology/Research Overview: *The team has developed a method to reduce triglycerides; improve glucose tolerance; and reduce weight using an adult stem cell technology platform*

Intellectual Property Protection: *Two issued patents and one patent pending*

Stage of Development: *Basic research*

Value Proposition: *Can reduce the risk of cardiovascular disease for those that cannot treat this syndrome with exercise.*

COMPANY INTRODUCTION

Mission: *To improve patient outcomes by transforming great science into actionable solutions for the treatment of metabolic diseases.*

Founded: *2005*

Number of Employees: *20*

Facility Description: *We are currently developing this method in a laboratory located at the Mayo Clinic in Rochester, MN.*

Product Sales: *None to date*

RESEARCH NEED

Seeking funding to test this platform on diabetes, high blood pressure, and abnormal cholesterol levels.

OPPORTUNITY

Need/Problem: *Metabolic syndrome is becoming increasingly common due to a rise in obesity rates among adults. In the future metabolic syndrome may overtake smoking as the leading risk factor for heart disease.*

Target Customer: *About 32% of people in USA are considered to suffer from metabolic syndrome, with the risk increasing with age (e.g., 40% of people aged between 40 and 60 are considered to suffer from this syndrome).*

Market Opportunity: *Our technology aims to address the rise in obesity rates in order to reduce the risk of a debilitating stroke or myocardial infarction.*

PROJECT PITCH

Technology Innovation | up to 500 words

Describe the technical innovation that would be the focus of a Phase I project, including a brief discussion of the origins of the innovation as well as explanation as to why it meets the program's mandate to focus on supporting research and development (R&D) of unproven, high-impact innovations.

Technical Objective and Challenges | up to 500 words

Describe the R&D or technical work to be done in a Phase I project, including a discussion of how and why the proposed work will help prove that the product or service is technically feasible and/or significantly reduce technical risk. Discuss how, ultimately, this work could contribute to making the new product, service, or

process commercially viable and impactful. This section should also convey that the proposed work meets the definition of R&D, rather than straightforward engineering or incremental product development tasks.

Market Opportunity | up to 250 words

Describe the customer profile and pain point(s) that will be the near-term commercial focus related to this technical project.

Company and Team | up to 250 words

Describe the background and current status of the applicant small business, including key team members who will lead the technical and/or commercial efforts discussed in this Project Pitch.

INTRODUCTION to SBIR/STTR with NATIONAL SCIENCE FOUNDATION

Presented by Nebraska Business Development Center

Josh Nichol-Caddy

Director of NBDC's Innovation and Technology Program

jnicholcaddy@unomaha.edu

AGENDA

- **SBIR/STTR program information**
- **Project Pitch process for National Science Foundation SBIR/STTR**
- **Upcoming events**
- **Homework**

SMALL BUSINESS INNOVATION RESEARCH

A competitive awards-based program, SBIR enables small businesses to explore technological potential and provides the incentive to profit from its commercialization

Three phases

- Phase I – Establish feasibility
- Phase II – Continue research and development
- Phase III – Commercialization

Technical assistance grants and matching funds available from Nebraska's Department of Economic Development

- Phase 0 grants can reimburse up to \$5,000 per project for costs incurred preparing a federal Phase I proposal.
- Phase I and II grants will match federal SBIR/STTR awards up to \$100,000 or 65% of the federal grant, whichever is less.

ELIGIBILITY

“The SBIR and STTR programs are designed to support small, independent, U.S. firms. To ensure that only these types of firms receive program funds, all awardees are required to certify at the time of award that the awardee firm meets the **size, ownership, and control** requirements of the programs.”

Size

An SBIR/STTR awardee, together with its affiliates, **must not have more than 500 employees**. For SBIR/STTR, size is determined only by number of employees; **there are no revenue limits**.

- *For the SBIR/STTR programs, an employee includes all individuals employed on a full-time, part-time, or other basis. This includes employees obtained from a temporary employee agency, professional employee organization, or leasing concern.*
- *For the SBIR/STTR programs, concerns and entities are affiliates of each other when one controls or has the power to control the other, or a third party (or parties) controls or has the power to control both. Bases for finding affiliation include: ownership; options, convertible securities, or agreements to merge; common management; identities of interest; newly organized concerns; joint ventures; ostensible subcontractors; license agreements; totality of the circumstances.*

ELIGIBILITY

“The SBIR and STTR programs are designed to support small, independent, U.S. firms. To ensure that only these types of firms receive program funds, all awardees are required to certify at the time of award that the awardee firm meets the **size, ownership, and control** requirements of the programs.”

Ownership

An SBIR/STTR small business awardee must be a business concern.

A majority (more than 50%) of a firm’s equity must be directly owned and controlled by one of the following:

- 1. One or more individuals who are citizens or permanent resident aliens of the U.S.*
- 2. Other for-profit small business concerns (each of which is directly owned and controlled by individuals who are citizens or permanent resident aliens of the U.S.)*
- 3. A combination of 1 and 2.*
- 4. Multiple venture capital operating companies, hedge funds, private equity firms, or any combination of these, so long as no one such firm owns or controls more than 50% of the equity.*

ELIGIBILITY

“The SBIR and STTR programs are designed to support small, independent, U.S. firms. To ensure that only these types of firms receive program funds, all awardees are required to certify at the time of award that the awardee firm meets the **size, ownership, and control** requirements of the programs.”

Control

The purpose of the ownership requirement is to ensure that the awardee firm is controlled directly by individuals who are U.S. citizens or permanent resident aliens or by businesses that are majority-owned by such. Actual control of the firm must reside within the eligible ownership majority and may not reside outside of that ownership block. One of the following must describe the control of a firm – the company must be more than 50% controlled by:

- *One U.S. citizen or permanent resident alien or more than one U.S. citizen or permanent resident alien.*
- *One other small business that is directly owned and controlled by U.S. citizens or permanent resident aliens or more than one other small business, each of which are directly owned and controlled by U.S. citizens or permanent resident aliens*
- *Any combination of the above.*

An awardee firm may be owned by venture capital operating companies, hedge funds, or private equity firms if:

- *they qualify as a small business that is majority owned and controlled by individuals who are citizens or resident aliens of the U.S.*
- *they own 50% or less of an awardee, so long as it does not have the power to control the awardee.*

SMALL BUSINESS TECHNOLOGY TRANSFER

SBIR Phase I projects constrain the use of subcontractors because **no more than 33%** of the research can be subcontracted.

STTR is much more generous, allowing for **up to 60%** of the R&D to go to the nonprofit RI. The guidelines for STTR state that the small business must perform 40% of the work on the project and the research institution must perform at least 30% of the R&D.

	SBIR	STTR
Phase 1 duration	6 months	12 months
Number of participating agencies	11	5
Phase I award size	Up to \$150,000	Up to \$150,000
% of Agency's extramural R&D budget [FY16]	3.00%	0.45%
IP allocation agreement required	No	Yes
Nonprofit RI or FFRDC participation required	No	Yes
PI employment	small business	small business or RI
Applicant	small business	small business

SBIR.GOV/ TUTORIALS

The Online Tutorials features courses designed to help interested parties learn more about the Small Business Innovation Research (SBIR) and the Small Business Technology Transfer (STTR) programs. From learning the nuances of each agency's programs to figuring out how to calculate indirect rates, the Online Tutorials covers all of the bases within the application process for federal funding. While some tutorials are broad and can be helpful to the novice, others are tailored to more seasoned SBIR/STTR awardees. Please see the Tools section within each tutorial for additional resources and be sure to take the short quiz at the end to ensure you've fully mastered the course.



COURSES



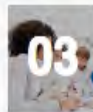
01

PROGRAM BASICS



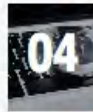
02

AGENCY INTRODUCTIONS



03

AGENCY SOLICITATIONS



04

FINDING TOPICS



05

REGISTRATION REQUIREMENTS



REQUIRED REGISTRATIONS



[Support](#) [Contact](#) [Login](#)

[Perspectives](#) [Solutions](#) [Products](#) [About Us](#) [D-U-N-S Number](#)

[HOME](#) > [D-U-N-S NUMBER](#) > [GET A D-U-N-S NUMBER](#)

Get a Dun & Bradstreet D-U-N-S® Number

The D-U-N-S Number is used to establish your company's D&B® file, which can help potential partners and lenders learn more about your business, and may also help them make more informed decisions about whether or not to work with you as a client, supplier, or partner.

The first step in creating a new D-U-N-S Number is searching to see whether Dun & Bradstreet has already created one for you.

Hi there, our Dun & Bradstreet experts are here to help! What can we help you with today?

[START A LIVE CHAT](#)



CALL US (844) 235-6172



CONTACT US

REQUIRED REGISTRATIONS



 Sign In

[Home](#) [Search](#) [Data Bank](#) [Data Services](#) [Help](#)

Entity Registrations

You may use this for FREE to do the following.

- Register to do business with the U.S. Government
- Update or renew your entity registration
- Check status of an entity registration
- Search for entity registration records



What is an entity?


Registered entites are public information, but you must be signed to search and view them.

[Sign In](#)

Register Your Entity

Register your entity to get started doing business with the federal government.

-  [Get Started](#)
-  [Renew Entity](#)
-  [Check Registration Status](#)

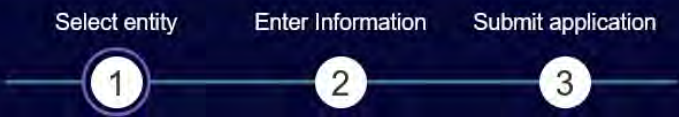
Getting started searching entity registrations

REQUIRED REGISTRATIONS

IRS EIN TAX ID NUMBER
Online Application
EIN Processing & Filing Service

APPLY ONLINE
FOR AN IRS EIN/TAX ID NUMBER
IN MINUTES.

SELECT YOUR ENTITY TYPE



Select your desired entity and fill out your information on our simplified forms to obtain a Federal Tax ID Number / EIN from the IRS in just 3 simple steps. Govt Assist agents will provide a filing service and process your application with the Internal Revenue Service. You will receive your EIN via e-mail that same day, usually within an hour, if submitted during business hours.

Sole Proprietor / Individual	Limited Liability Company	Trust	Estate Of Deceased Individual	Non Profit Organization
Partnership	Corporation	S-Corporation	Personal Service Corporation	Church Controlled Organization

REQUIRED REGISTRATIONS



Research.gov
ONLINE GRANTS MANAGEMENT
FOR THE NSF COMMUNITY

[Sign In](#) | [Register](#) | [Home](#) | [Contact](#) | [Help](#) | [About](#)

Account Registration

i NSF Proposal & Award Policies & Procedures Guide (PAPPG) specifies that each individual user of NSF systems should not have more than one NSF ID (Chapter I.G.4, NSF ID).
[Forgot/Look Up your NSF ID?](#)

* Required Fields

Prefix

Select Prefix ▼

*** First Name**

Middle Name/Initial

*** Last Name**

Suffix

Select Suffix ▼

Alternate Name(s) Nickname, maiden name, etc.

*** Primary Email** **i** For NSF account password recovery


*** Confirm Primary Email**


Secondary Email **i**

Confirm Secondary Email

REQUIRED REGISTRATIONS

[SBA Guidance for Businesses Impacted by Coronavirus \(COVID-19\)](#) [LEARN MORE](#)




[Login/Register](#) [Contact Us](#) [Search](#) 

[About](#) [Funding](#) [Reports](#) [Showcase](#) [Announcements](#) [Resources](#)

[Home](#) » [Registration](#)

Company Registration

Company registration is meant for small businesses to register and gain access to the SBIR.gov system. Completed registrations will receive a unique SBC Control ID to be used for submissions at any of the 11 participating agencies in the SBIR or STTR programs.

1 *Certification Tool* 

2 *Have you Registered?*

3 *Duns/EIN/Email Check*

The SBIR certification tool is for informational purposes only. Ineligibility does not prohibit registration.

Type of Firm

Is your business organized as a for-profit company?

☐ Yes

☐ No

Is your principal place of business located in the United States?

Next >>

!

!

REQUIRED REGISTRATIONS

REGISTER



Registering with Grants.gov

One account to manage all your profiles, applications, and subscriptions.

Applicants

1. Complete the **required form fields**.
2. **Confirm** your email address.
3. **Add** an organization applicant profile or an individual applicant profile after registering.

Learn more on the [Applicant Registration page](#).

Grantors

1. Complete the **required form fields**.
2. **Confirm** your email address.
3. Ask your **agency point of contact** to associate your email address with the agency.

Learn more on the [Grantor Registration page](#).

[Get Registered Now »](#)



CONNECT WITH US: [Blog](#) [Twitter](#) [YouTube](#) [Alerts](#) [RSS](#) [XML Extract](#) [Get Adobe Reader](#)

HEALTH & HUMAN SERVICES: [HHS.gov](#) | [EEOC / No Fear Act](#) | [Accessibility](#) | [Privacy](#) | [Disclaimers](#) | [Site Map](#)

COMMUNITY: [USA.gov](#) | [WhiteHouse.gov](#) | [USAspending.gov](#) | [SBA.gov](#) | [SAM.gov](#) | [DUNS Request](#) | [Report Fraud](#)

[Frequently Asked Questions](#)

KEY ELEMENTS OF THE FULL APPLICATION

Technical proposal for review by panel of experts that must address “intellectual merit,” “broader impacts,” and “commercial potential.”

What is the deliverable?

Budget, with justifications from [Bureau of Labor Statistics](#)

What will it reasonably cost (applicants may include *fee*) **to produce that deliverable?**

Timeline

What are the milestones to achieve that deliverable, **working backward** from that 6-month deadline?

Gantt Chart

Task Name	Q1 2019			Q2 2019		Q3 2019
	Jan 19	Feb 19	Mar 19	Apr 19	Jun 19	Jul 19
Planning						
Research						
Design						
Implementation						
Follow up						

BUT BEFORE ALL THAT ... PROJECT PITCH

Technology Innovation | up to 500 words

Describe the technical innovation that would be the focus of a Phase I project, including a brief discussion of the origins of the innovation as well as explanation as to why it meets the program's mandate to focus on supporting research and development (R&D) of unproven, high-impact innovations.

Technical Objective and Challenges | up to 500 words

Describe the R&D or technical work to be done in a Phase I project, including a discussion of how and why the proposed work will help prove that the product or service is technically feasible and/or significantly reduce technical risk. Discuss how, ultimately, this work could contribute to making the new product, service, or

process commercially viable and impactful. This section should also convey that the proposed work meets the definition of R&D, rather than straightforward engineering or incremental product development tasks.

Market Opportunity | up to 250 words

Describe the customer profile and pain point(s) that will be the near-term commercial focus related to this technical project.

Company and Team | up to 250 words

Describe the background and current status of the applicant small business, including key team members who will lead the technical and/or commercial efforts discussed in this Project Pitch.

UPCOMING EVENTS for SAgE INNOVATION

Identifying Solicitations and How to Develop a Quad Chart

Virtual | July 8 | 1 – 2:30 p.m.

OnRamp Agriculture Conference

Virtual | July 15

SBIR Week

Virtual | July 19 – 23

- Resources for Innovation from NeDED (July 20 | 9-10 a.m.)
- Cuss and Discuss (July 22 | 9-10 a.m.)

<https://www.unomaha.edu/nebraska-business-development-center/news/events/2021/07/tech-07-19-21-sbir-week.php>

HOMEWORK

NEXT STEPS

- Identify agencies that have funded innovations like yours.
- Research funding priorities, then find and contact relevant program managers.
- Develop quad charts and/or other supporting document.

Phase

- ☐ Phase I (210)
- ☐ Phase II (88)

Program

- ☐ SBIR (263)
- ☐ STTR (35)

Year

- ☐ 2019 (2)
- ☐ 2018 (7)
- ☐ 2017 (14)
- ☐ 2016 (11)
- ☐ 2015 (10)
- ☐ 2014 (10)
- ☐ 2013 (6)
- ☐ 2012 (11)
- ☐ 2011 (12)
- ☐ 2010 (15)

State

- ☐ Michigan (3746)
- ☐ Minnesota (2488)
- ☐ Mississippi (252)
- ☐ Missouri (1003)
- ☐ Montana (736)
- ☒ Nebraska
- ☐ Nevada (453)

The broader impact/commercial potential of this project is the development of drone-based technology to manage fires more safely, efficiently, and effectively. Wildfires cause hundreds of billions of dollars in annual damages in the United States. As the size and number of wildfires increases, prescribed fires have emerged as one of the most cost-effective tools to reduce catastrophic damage by re ...

SBIR Phase I 2019 National Science Foundation

Pole-based solar mounting and tracking system for use in cattle production

SBC: FarmAfield Labs, LLC Topic: 12e

Rural areas in the United States have under-developed solar power capabilities relative to urban areas due to challenges matching energy demand centers with underutilized land and consequent cost challenges related to smaller installations that lack economies of scale. This project addresses these problems by proposing solar installations that operate synergistically with livestock production oper ...

SBIR Phase I 2019 Department of Energy

Multifunctional Antioxidant to Prevent Noise-Induced Hearing Loss

SBC: Therapeutic Vision, Inc. Topic: NIDCD

Noise induced hearing lossNIHLis the most common occupational disease for which no clinically effective drug is availableSince NIHL involves oxidation linked loss of sensory hair cells and auditory neurons in the cochleathere is a need for potent and effective antioxidants that offer protection to these tissuesIn preliminary studies we have observed that the orally administered multifunctional ant ...

SBIR Phase I 2018 Department of Health and Human Services

Seromic Mucin Signature for the Early Diagnosis of Pancreatic Cancer

SBC: Sanguine Diagnostics And Therapeutics, Inc. Topic: 102

ABSTRACT Pancreatic cancerPCis an extremely aggressive malignancy with one of the worst prognoses of all cancersWith marked resistance to chemotherapy and radiationtherapyis the only curative option for patients with



SBIR·STTR
America's Seed Fund
POWERED BY SBA



SBIR Road Tour
SEEDING AMERICA'S FUTURE INNOVATIONS™

Company:

State:

Name:

Email:

Phone:

TECHNOLOGY DEVELOPMENT

Technology/Research Overview: *The team has developed a method to reduce triglycerides; improve glucose tolerance; and reduce weight using an adult stem cell technology platform*

Intellectual Property Protection: *Two issued patents and one patent pending*

Stage of Development: *Basic research*

Value Proposition: *Can reduce the risk of cardiovascular disease for those that cannot treat this syndrome with exercise.*

COMPANY INTRODUCTION

Mission: *To improve patient outcomes by transforming great science into actionable solutions for the treatment of metabolic diseases.*

Founded: *2005*

Number of Employees: *20*

Facility Description: *We are currently developing this method in a laboratory located at the Mayo Clinic in Rochester, MN.*

Product Sales: *None to date*

RESEARCH NEED

Seeking funding to test this platform on diabetes, high blood pressure, and abnormal cholesterol levels.

OPPORTUNITY

Need/Problem: *Metabolic syndrome is becoming increasingly common due to a rise in obesity rates among adults. In the future metabolic syndrome may overtake smoking as the leading risk factor for heart disease.*

Target Customer: *About 32% of people in USA are considered to suffer from metabolic syndrome, with the risk increasing with age (e.g., 40% of people aged between 40 and 60 are considered to suffer from this syndrome).*

Market Opportunity: *Our technology aims to address the rise in obesity rates in order to reduce the risk of a debilitating stroke or myocardial infarction.*

PROJECT PITCH

Technology Innovation | up to 500 words

Describe the technical innovation that would be the focus of a Phase I project, including a brief discussion of the origins of the innovation as well as explanation as to why it meets the program's mandate to focus on supporting research and development (R&D) of unproven, high-impact innovations.

Technical Objective and Challenges | up to 500 words

Describe the R&D or technical work to be done in a Phase I project, including a discussion of how and why the proposed work will help prove that the product or service is technically feasible and/or significantly reduce technical risk. Discuss how, ultimately, this work could contribute to making the new product, service, or

process commercially viable and impactful. This section should also convey that the proposed work meets the definition of R&D, rather than straightforward engineering or incremental product development tasks.

Market Opportunity | up to 250 words

Describe the customer profile and pain point(s) that will be the near-term commercial focus related to this technical project.

Company and Team | up to 250 words

Describe the background and current status of the applicant small business, including key team members who will lead the technical and/or commercial efforts discussed in this Project Pitch.