

Navigating NIH Small Business Grant Opportunities

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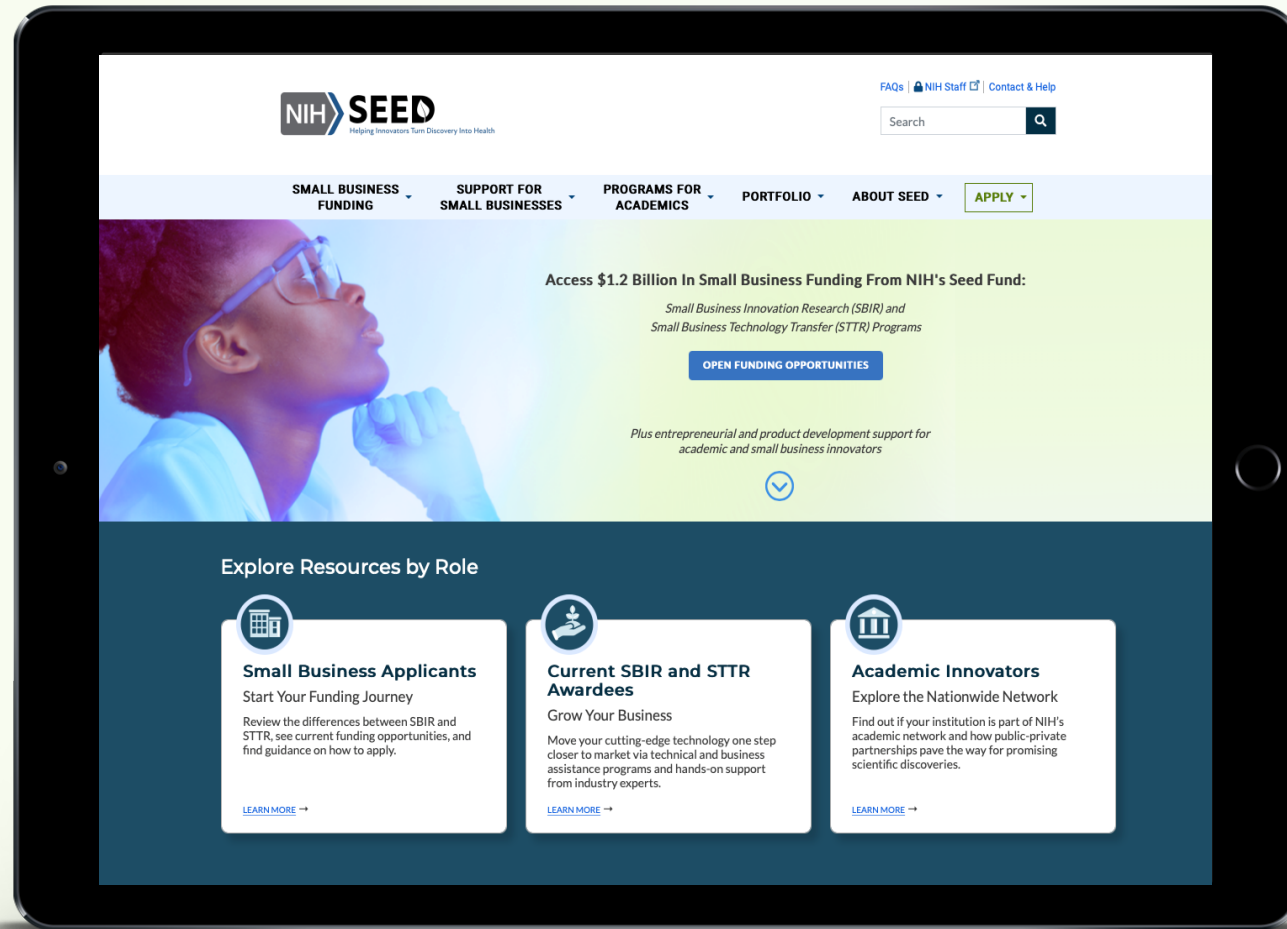
Director, NIH Small Business Program

SEED (Small business Education & Entrepreneurial Development)

OFFICE OF EXTRAMURAL RESEARCH | OFFICE OF THE DIRECTOR | NATIONAL INSTITUTES OF HEALTH

This presentation may include presenter's notes.

Small Business Program Website



<http://seed.nih.gov>

HHS Mission and Divisions



To enhance the health and well-being of all Americans, by providing for effective health and human services and by fostering sound, sustained advances in the sciences underlying medicine, public health and social services.



Food and Drug Administration
SBIR \$2 million



National Institutes of Health
SBIR and STTR \$1.4B



Centers for Disease Control and Prevention
SBIR \$9 million



Advanced Research Projects Agency for Health
SBIR and STTR \$38 million



Administration for Community Living
SBIR \$4 million

NIH Mission



*To seek fundamental knowledge about the nature and behavior of living systems and the **application of that knowledge to enhance health, lengthen life, and reduce illness and disability.***

The Small Business Program helps NIH accelerate discoveries from bench to bedside

Congressionally Mandated Programs



**\$1.4 Billion Dedicated Funding via Set-aside
from NIH's R&D Budget**

SMALL BUSINESS INNOVATION RESEARCH (SBIR) PROGRAM

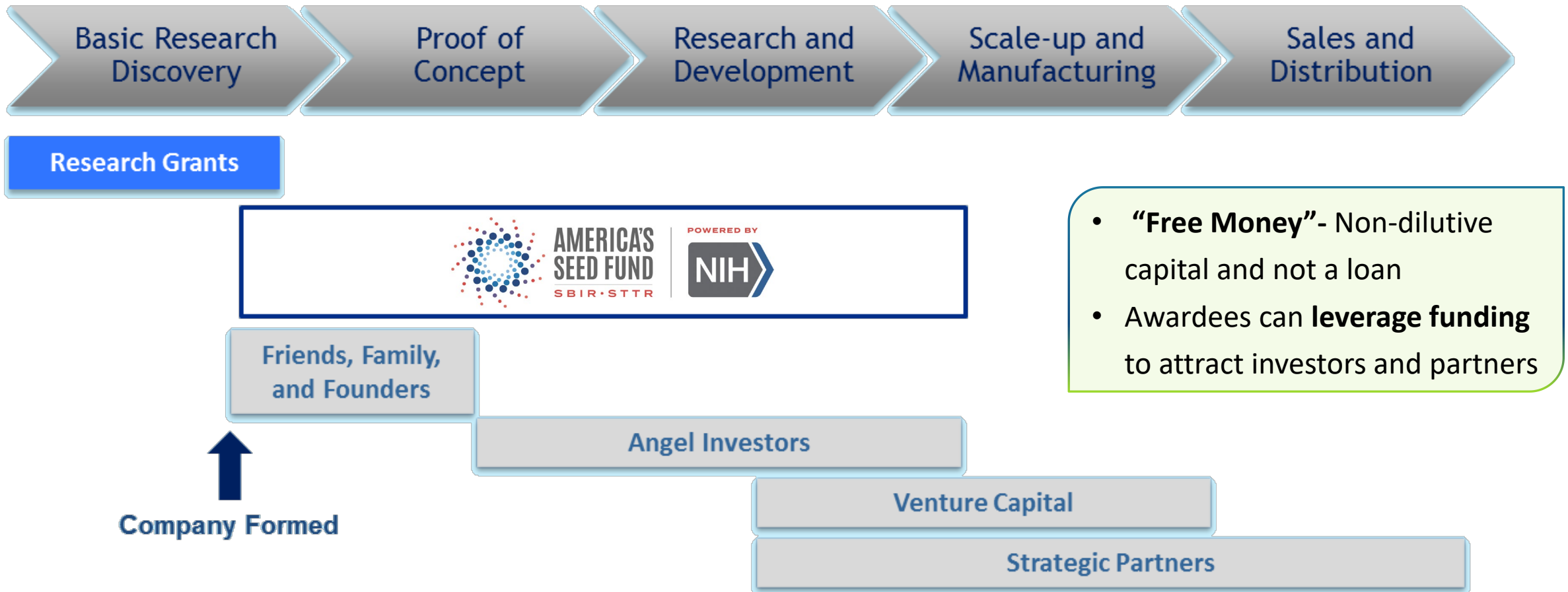
\$1.25 billion set-aside for small business concerns to engage in federal R&D -- with potential for commercialization

SMALL BUSINESS TECHNOLOGY TRANSFER (STTR) PROGRAM

\$177 million Set-aside to facilitate cooperative R&D between small business concerns and US research institutions -- with potential for commercialization

Benefits of NIH Funding

The largest sources of early-stage capital for life sciences in the US



Myth 1

It is easier (and better) for a company to just get investors and avoid all the work and time to apply for an NIH grant!

Myth Busted

Companies that have developed their product with non-dilutive small business program money are very attractive to investors and strategic partners.

Small Business Success Stories



seed.nih.gov/portfolio/stories



Biomedical company advances Brain Disorder Research



Rural company goes deep in the brain to treat movement disorders



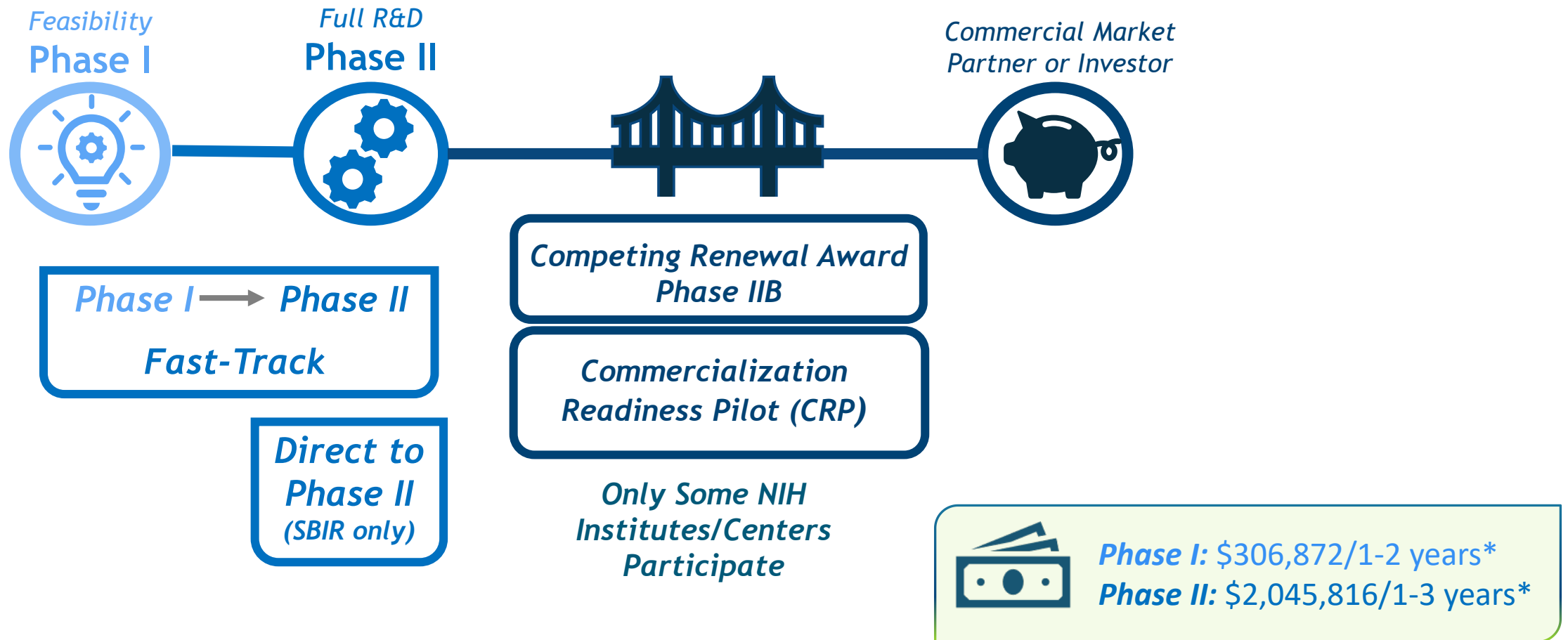
Digital learning company supports parents, teachers, underserved communities

Eligibility Criteria

- Organized as for-profit US business
- Small: 500 or fewer employees, including affiliates
- Work must be done in the US (with few exceptions)
- Individual Ownership:
 - Greater than 50% US-owned by individuals and independently operated <OR>
 - Greater than 50% owned and controlled by other business concerns that are greater than 50% owned and controlled by one or more individuals, an Indian tribe, ANC or NHO (or a wholly owned business entity of such tribe, ANC or NHO) <OR>
 - **SBIR ONLY:** Be a concern which is more than 50% owned by multiple venture capital operating companies, hedge funds, private equity firms, or any combination of these

Determined at the time of award- Applicants provide either an SBIR or STTR Funding Agreement Certification

Phased Programs



***NIH, CDC, ARPA-H have a waiver from the Small Business Administration to exceed these budgets for selected [topics](#)**

Myth 2

It is much harder to get a NIH Fast-Track or Direct to Phase II, so don't even bother applying for those

Myth Busted

Although most new projects are Phase I, we support many Fast-Tracks and Direct to Phase II.

Speak with a program officer to determine the best path for your project

Funding Opportunities

<https://seed.nih.gov>

NIH SEED
Helping Innovators Turn Discovery Into Health

FAQs | NIH Staff | Contact & Help

Search

SMALL BUSINESS FUNDING | SUPPORT FOR SMALL BUSINESSES | PROGRAMS FOR ACADEMICS | PORTFOLIO | ABOUT SEED | APPLY

Access \$1.2 Billion In Small Business Funding From NIH's Seed Fund:
Small Business Innovation Research (SBIR) and Small Business Technology Transfer (STTR) Programs

OPEN FUNDING OPPORTUNITIES

Plus entrepreneurial and product development support for academic and small business innovators

Majority of the funding goes to investigator-initiated grant applications

Standard receipt dates:
September 5, January 5, April 5

Open Funding Opportunities

General Grant Omnibus Solicitations

Clinical Trials Not Allowed:
SBIR ([PA-24-245](#)) and STTR ([PA-24-247](#))

Clinical Trials Required:
SBIR ([PA-24-246](#)) and STTR ([PA-24-248](#))

Read the “Program Descriptions and Research Topics” Section in the Solicitation

Targeted Solicitations

Specific Grant Solicitations:
<https://seed.nih.gov/small-business-funding/>

SBIR Contract Solicitations:
<https://seed.nih.gov/small-business-funding/find-funding/sbir-contracts>

[NOT-OD-24-079](#)

Women’s Health Research

[SBIR NIH/CDC Contract Pre-Solicitation](#)

Small Business Transition Grant for New Entrepreneurs

Clinical Trial Not Allowed:

SBIR ([PAR-24-131](#)) and STTR ([PAR-24-133](#))

Clinical Trials Required:

SBIR ([PAR-24-132](#)) and STTR ([PAR-24-134](#))

Foster early-career scientists transitioning to entrepreneurship by supporting:

- Research and development efforts at the small business *and*
- Entrepreneurial training, mentoring and career development

Investigators are expected to grow their entrepreneurial skill set while working in a small business to develop promising technologies and products

Webinar Materials and Further Information: [Small Business Transition Grant Website](#)

Myth 3

I should apply to a specific program announcement because targeted funding opportunities have their own dedicated funding.

Myth Busted

Most NIH awards are made to applications submitted to the omnibus (general) solicitations.

SBIR and STTR Critical Differences

*Award is always made to
the small business*

Partnering Requirement

SBIR

Permits partnering

Work Requirement

Guidelines: May outsource 33%
(Phase I) 50% (Phase II)

Principal Investigator

Guidelines: Primary
employment (>50%) with the
small business

STTR

Requires a non-profit research
institution partner
(e.g., university)

Minimum Work Requirements:
40% small business
30% research institution partner

Employed by either the research
institution partner or small business

Myth 4

Since SBIR is a bigger program, I have a better chance of getting an SBIR awarded.

Myth Busted

The size of the program does not correlate with the chance of getting an award.

For example, smaller programs (i.e. STTR) or NIH Institutes may have far fewer applications.

Clinical Trials

NIH Definition of a Clinical Trial

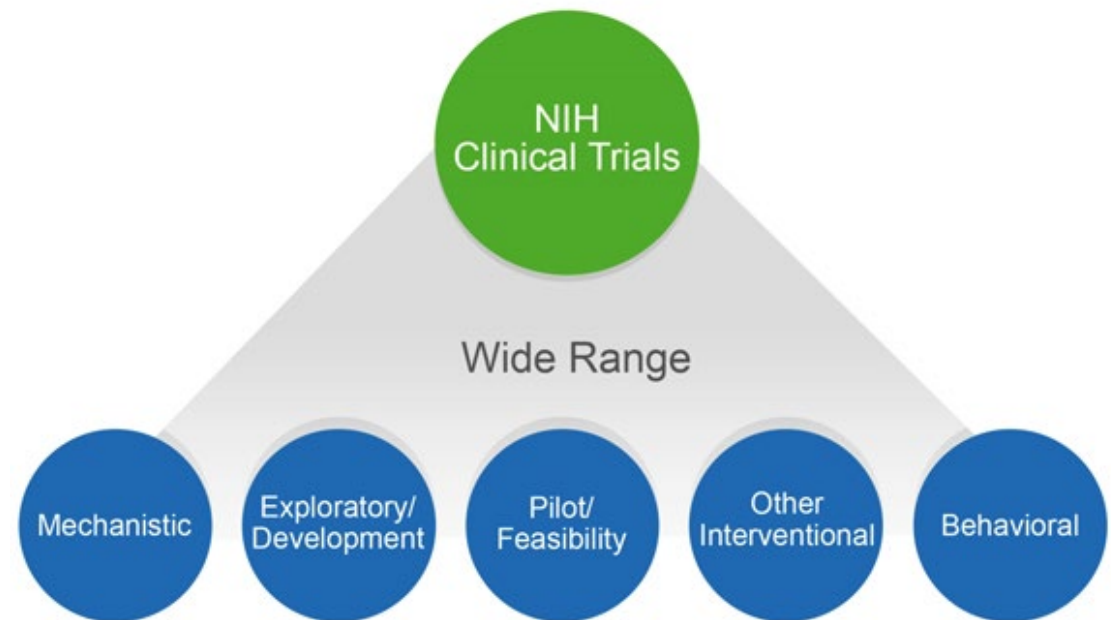
A research study in which one or more human subjects are prospectively assigned to one or more interventions (which may include placebo or other control) to evaluate the effects of those interventions on health-related biomedical or behavioral outcomes.

DECISION TOOL

Your human subjects study may meet the NIH definition of a clinical trial.

FIND OUT HERE

<https://grants.nih.gov/policy/clinical-trials.htm>



Myth 5

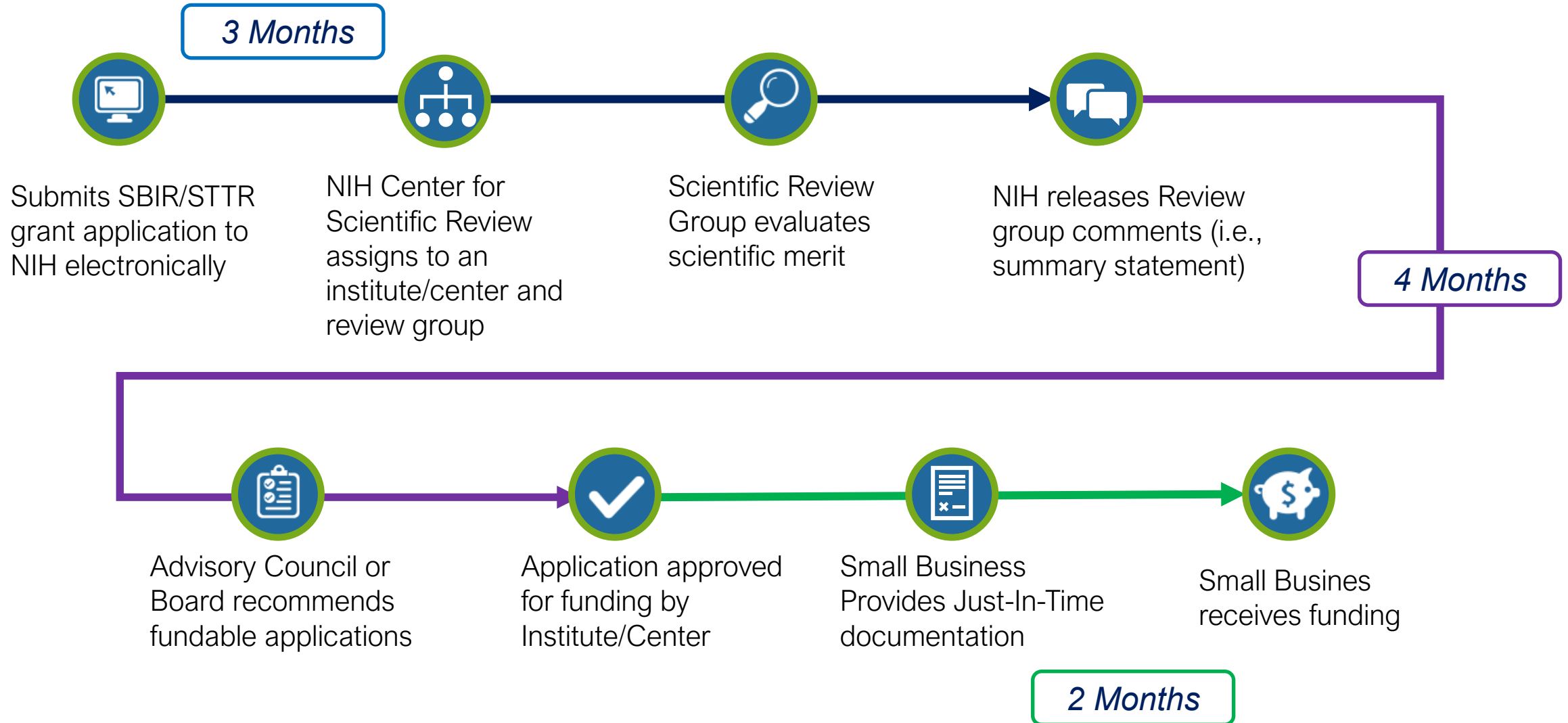
My project is low risk and only has a few human subjects, so it is not a clinical trial.

Myth Busted

The NIH definition of a clinical trial is not the same as the FDA's and is not based on risk or number of subjects.

Not all NIH Institutes accept applications with clinical trials, so it is important to talk with a program officer!

NIH Application & Review Process: Submission



Electronic Submission

Grant applications **and** SBIR contract proposals must be submitted **electronically**.

- Grants submit via **ASSIST** (recommended) or Grants.gov Workspace
- For contracts, submit proposals with [electronic Contract Proposal Submission \(eCPS\)](#) website

REQUIRED REGISTRATIONS

- System for Award Management (SAM)
- Grants.gov
- eRA Commons (SBC & all Sr/Key Persons)
- SBIR.gov



**Two-Factor Authentication
is Required**

login.gov

Use the same login.gov account for
all the registrations!

Myth 6

Novice applicants to the program are almost never successful at getting awards.

Myth Busted

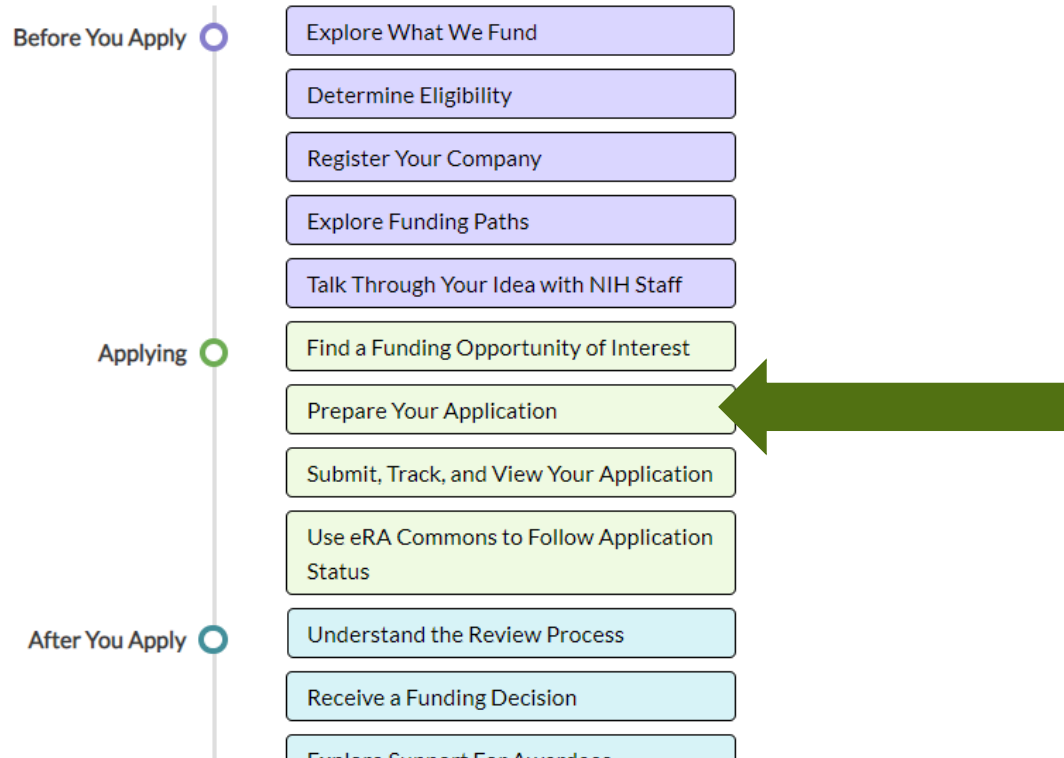
**~1/3 of the companies receiving SBIR and STTR awards go to new companies.
NIH strongly encourage new applicants!**

Resources

SMALL BUSINESS FUNDING

HOW TO APPLY

Find step-by-step instructions to apply for SBIR and STTR grants along with contact touchpoints at each step.



Links to:

- [Application Instructions](#)
- [Annotated Form Set](#)
- [Sample Applications](#)
- [State Resources through SBA FAST Program](#)

<https://seed.nih.gov/small-business-funding/how-to-apply>

Highlighted Recent Changes

Data Management and Sharing Plan

- Required for SBIR/STTR applications
- **May retain the rights to data generated during the performance of the award for up to 20 years after the award date**
- Acceptable plans can reference and incorporate these data rights
- NIH may make plans public- plans should not contain proprietary information

Facilities & Other Resources

Must describe:

- Business environment and resources (or how you will obtain them) for completing and commercializing the product or service
- Relevant intellectual property associated with the project

Application Tips

- Build a team
- Talk to people about your innovation- be prepared to pivot
- Read the Notice of Funding Opportunity
- Review successful grant applications
- **Talk with a Program officer**
- Follow the instructions
- Write a proposal that addresses the review criteria
- Make it easy to read- Edit and Proofread!
- Write for experts and non-experts
- Let others review your application



Submit Early (Days NOT Hours)

Most Important Piece of Advice

NIH SEED
Helping Innovators Turn Discovery Into Health

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New to SBIR & STTR?

Learn How to Apply for SBIR or STTR Funding
Find step-by-step instructions on how to apply for more than \$1 billion in funding.

LEARN MORE | READ FAQS

Small Business Research Areas

24 of the NIH's Institutes fund small business R&D projects through the SBIR and STTR Programs.
Select an Institute to learn more about their mission and how they support small businesses.

Select Funding Institute | Learn More

INSTITUTE-SPECIFIC SBIR AND STTR CONTACTS



Talk to a Program Officer at least a month before the application deadline!

Not sure who to contact?

Research Portfolio Online Reporting Tools (RePORT): <https://report.nih.gov/>

Email: SEEDinfo@nih.gov

List of SBIR Program Managers:
<https://seed.nih.gov>

Research Portfolio Online Reporting Tools (RePORT): <https://report.nih.gov>

NIH > RePORT > RePORTER

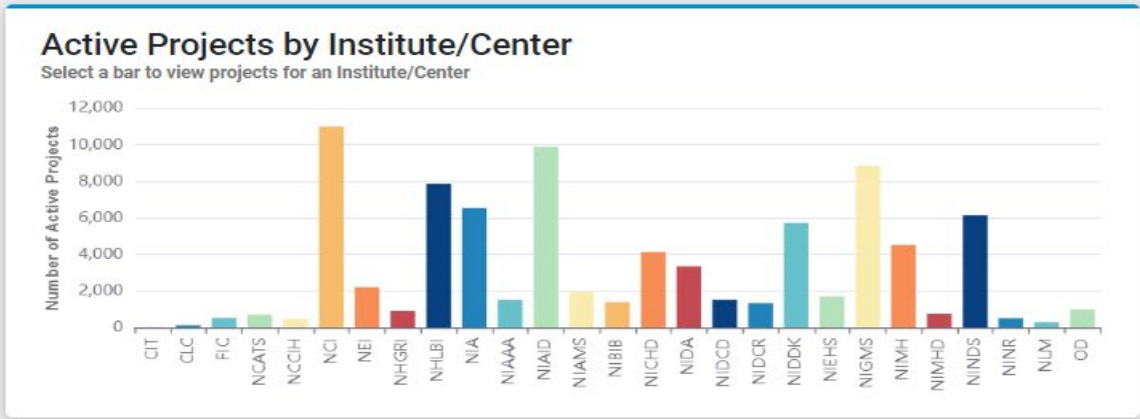
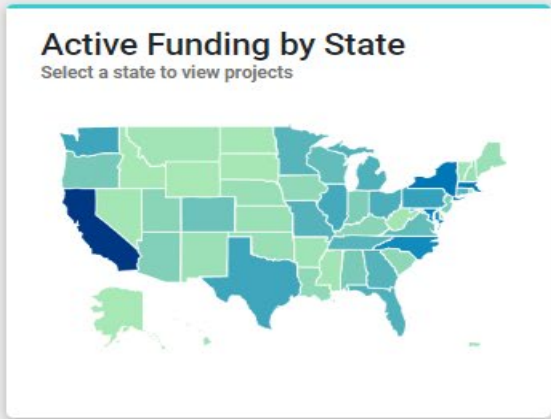
FAQs API Sign In

Quick Search

Enter just about anything to find NIH projects and funding information: text, PI names, project numbers, fiscal year, agency

Welcome to the new NIH RePORTER
Rebuilt from the ground up, leveraging the latest technologies, to bring you an enhanced experience. Faster performance, mobile ready, and an intuitive, all-new Quick Search brings the power of NIH RePORTER to your fingertips.

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Advanced Projects Search

Fiscal Year ?

Current FY is 2021

Principal Investigator (PI) ?

PI Names or Profile IDs, semicolon ";" separated

Organization ?

Enter at least 3 characters to search

Matchmaker

Find potential Program Officials, ICs, and review panels for your research.

[Get Started >](#)



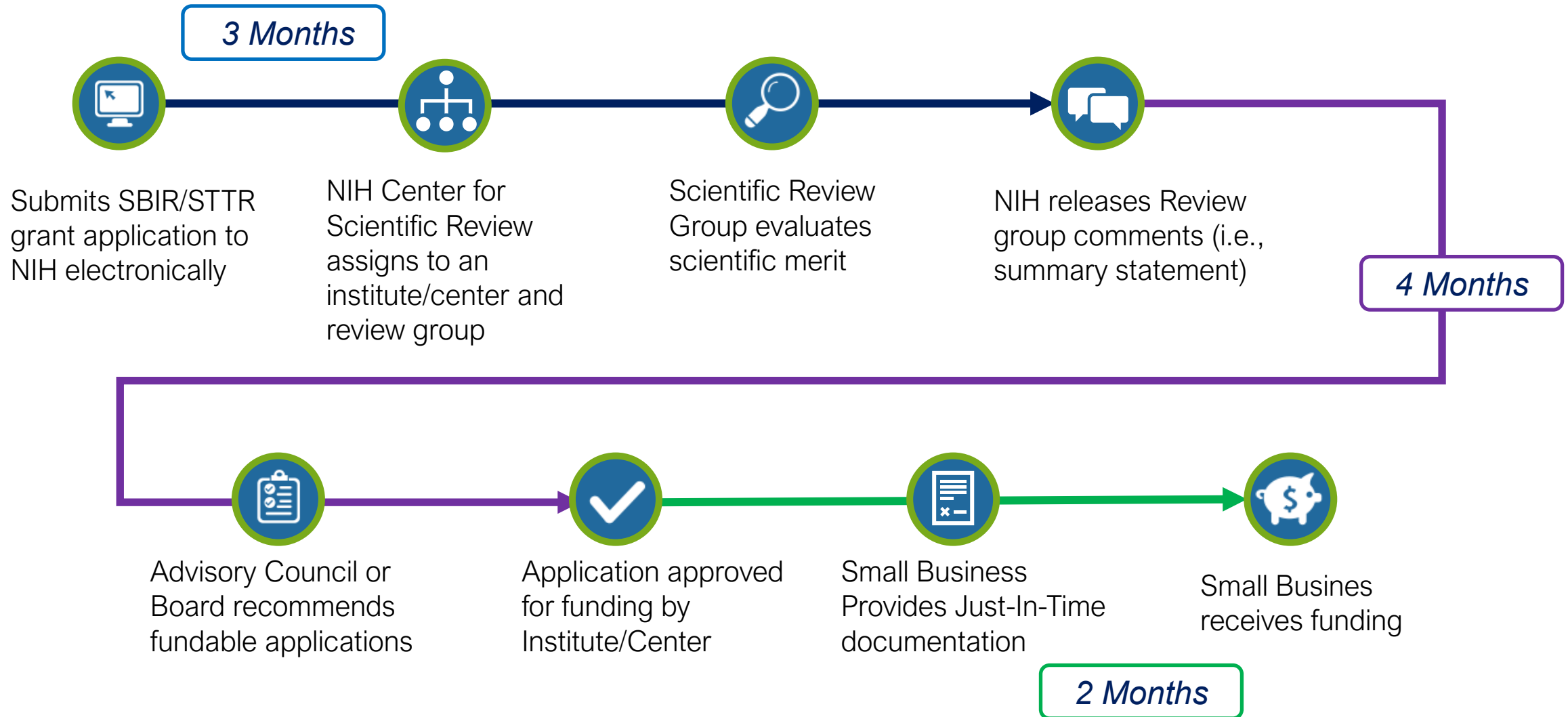
Myth 7

Applications are submitted to a specific Institute, so I need to choose the Institute and Study Section for my application.

Myth Busted

Applications are submitted to NIH and then assigned to a specific Institute and Study Section. You can request a specific Institute or Study Section, but you don't have to!

NIH Application & Review Process: Peer Review



Review Criteria

Center for Scientific Review
<https://public.csr.nih.gov/>

Overall Impact Score

Scored Review Criteria

(score 1-9)

Significance:

Real Problem/Commercial Potential

Investigators:

Investigator and Team

Innovation:

Competitive Advantage

Approach:

Research Design, Feasible

Environment:

Facilities/Resources

Additional Review Criteria

(not scored individually)

Application Phase Specific
Considerations

Protection of Human Subjects

Inclusion of Women, Minorities
& Children

Vertebrate Animals

Biohazards

Additional Review Considerations

(not factored into the overall score)

Foreign Components

Select Agent Research

Resource Sharing Plans

Authentication of Key Resources

Budget and Period of Support

Review Process

Scored Review Criteria

(score 1-9)

Significance:

Real Problem/Commercial Potential

Investigators:

Investigator and Team

Innovation:

Competitive Advantage

Approach:

Research Design, Feasible

Environment:

Facilities/Resources

- Each application has 3 assigned reviewers
- Five Review Criteria that reviewers score individually
- Overall Impact Score is determined after discussion and scoring by the Scientific Review Group
- ~50% of applications are not discussed-
but **all** applications receive reviewer comments!

Common Application Problems

- No Significance: Unimportant problem, unconvincing case for commercial potential or societal impact
- Lack of innovation or advantage over other technologies or products
- Team lacks expertise/experience in a key area
- Unfamiliar with relevant published work
- Approach:
 - Inadequately defined test of feasibility
 - Diffuse, superficial or unfocused research plan
 - Questionable reasoning in experimental approach
 - Failure to consider potential pitfalls and alternatives
 - Unrealistically large amount of work proposed



Myth 8

My application didn't get discussed or funded the first time. It's a waste of time to try again.

Myth Busted

Many companies are funded after incorporating feedback into their resubmission.

Tips: Read the summary statement carefully.

Contact your program officer to discuss.

Offer to be a reviewer.

Be Prepared to Resubmit



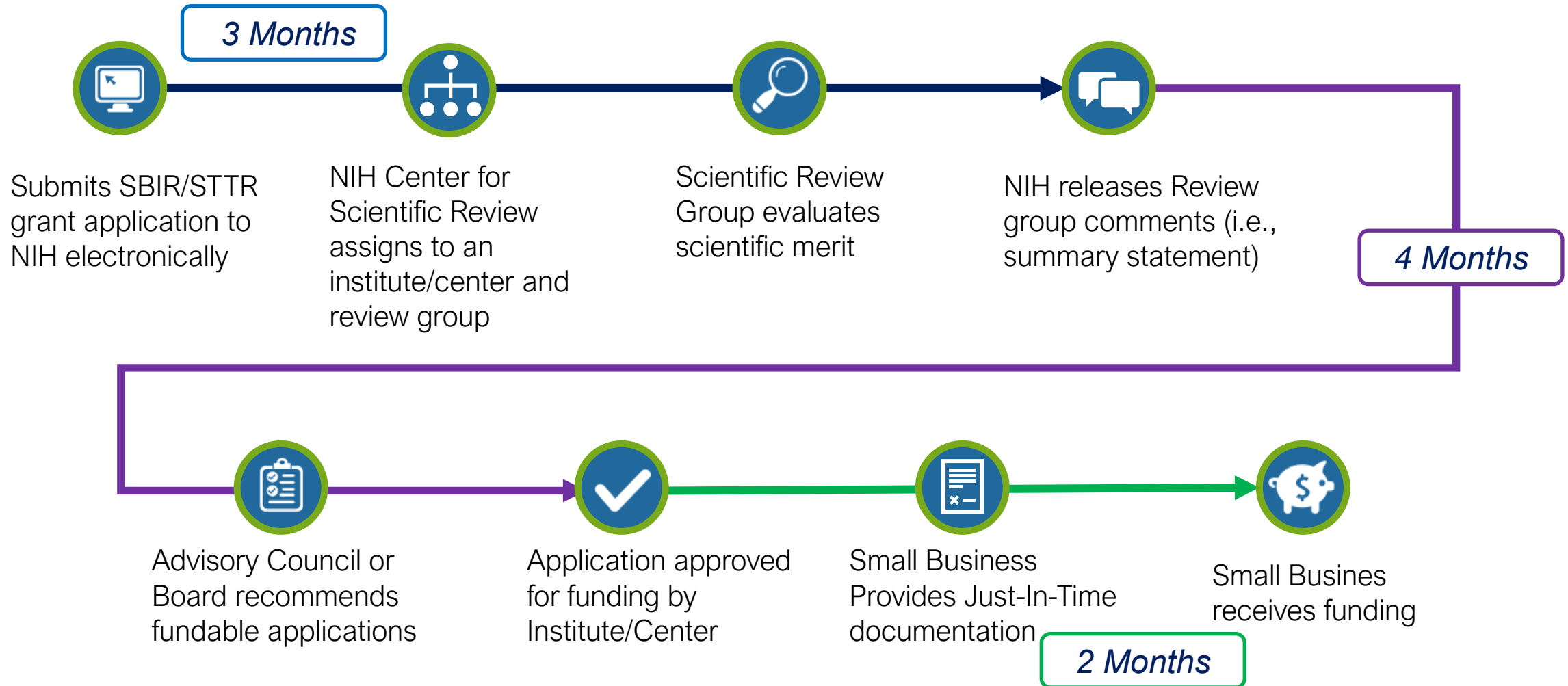
LAVERNE MORROW CARTER,
PH.D.

President and Founder

[SBIR] has been a long, trying, but worthwhile journey...from multiple submissions that were not discussed...to applications that scored below the funding levels...to concurrent applications (one Phase II and a Phase I) emerging from the rigorous peer review process with impact scores in the "Excellent" range."



NIH Application & Review Process: Advisory Council and Due Diligence



Foreign Disclosure: Pre-award Requirements

New Requirement from the SBIR and STTR Extension Act of 2022

Disclosure is required using the [Required Disclosures of Foreign Affiliations or Relationships to Foreign Countries Form](#)

- Submitted via the Just-In-Time (JIT) process and required for award
- Disclosure is required for all owners and covered individuals (i.e. senior key personnel)



IMPORTANT: SBIR/STTR eligibility criteria HAVE NOT changed- disclosure of foreign affiliations or relationships DOES NOT automatically disqualify an applicant

Foreign Risk Assessment

New Requirement from the SBIR and STTR Extension Act of 2022

- Prior to award NIH will assess security risk including: Cybersecurity practices, Patent analysis, Employee analysis, Foreign ownership, Financial Ties and Obligations
- NIH may decline to move forward with an award based on security risks as required in the legislation
 - NIH staff and applicants will not be provided details of the assessment
 - Applicants are encouraged to consider if their relationships will pose a security risk
- For Information and Case Studies: [Foreign Disclosure and Risk Management webpage](#)

Myth 9

Scientific review group (i.e. study section) determines if you are going to get Funded.

Myth Busted

NIH staff use score and summary statement when developing the funding plan

Advisory Council/Board has access

BUT final funding decision is made by the Institute/Center Director

Myth 10

The Small Business Programs only provide money.

Myth Busted

The Small business Education and Entrepreneurial Development (SEED) Office provides technical and business assistance, education, partnering/investment opportunities, and commercialization support.

Technical and Business Assistance (TABA) Programs



Phase I: TABA Needs Assessment Request Post-Award

Provides a third-party, unbiased assessment of areas that are critical to success in the competitive healthcare marketplace



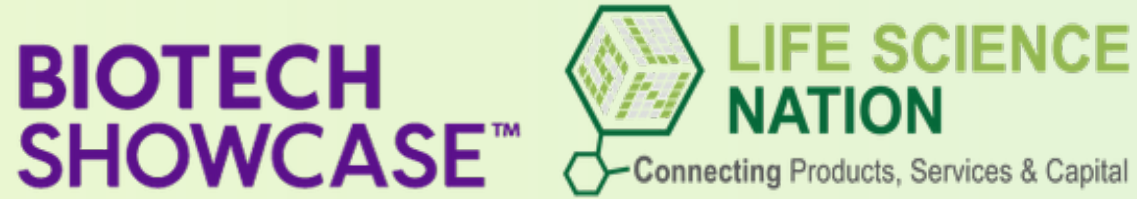
Phase II: TABA Funding Request in Application

\$50,000 to hire vendor(s) for Technical and Business Assistance
(Follow Instructions to request funds in the application)

<https://seed.nih.gov/TABA>

Innovator Support

Partnering and Investment Opportunities



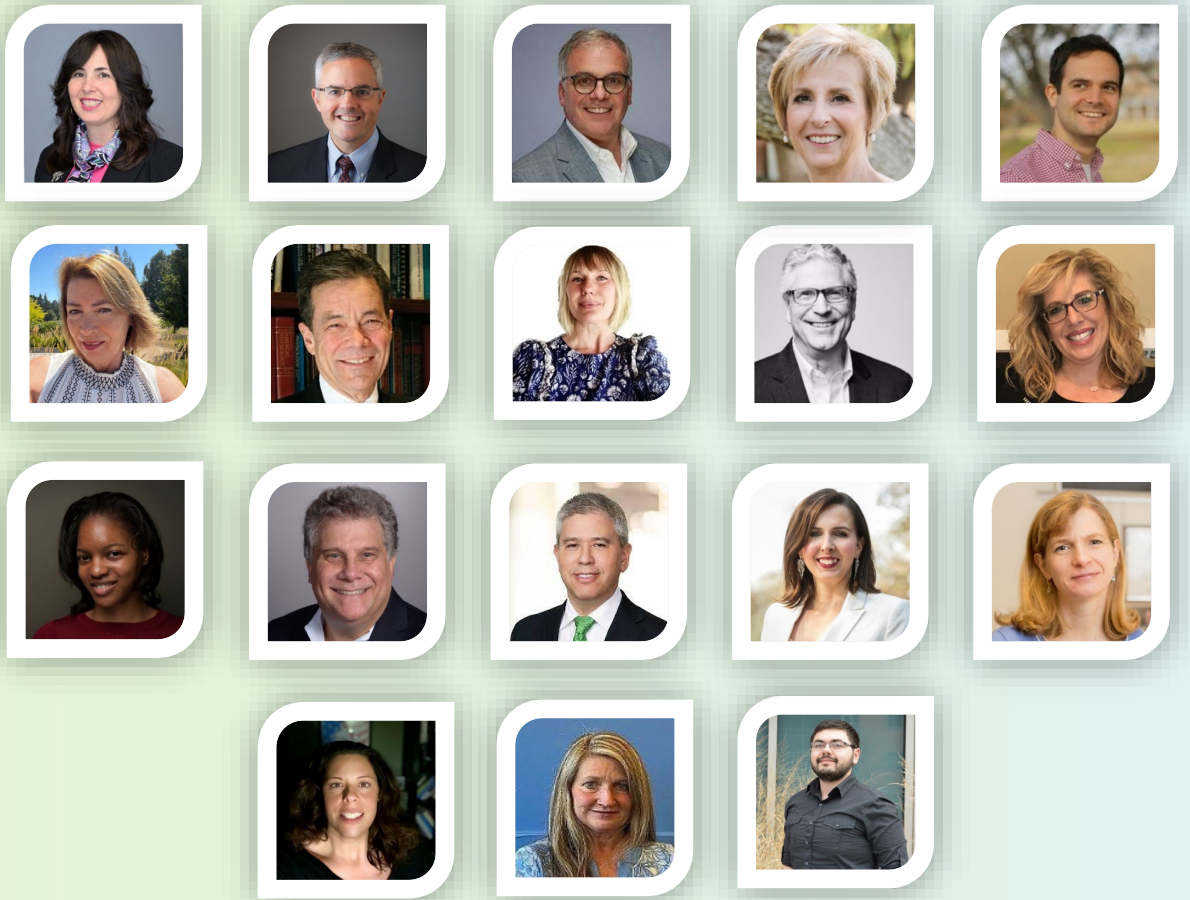
ANGEL CAPITAL ASSOCIATION



Landmark Angels



Regulatory & Business Development Consultants



Entrepreneurial Support Programs

NIH Entrepreneurship BOOTCAMP

Introduce early-stage (pre-SBIR, pre-company) innovator teams to entrepreneurship, customer discovery, and business model validation
seed.nih.gov/bootcamp



Funding for Small Businesses to Diversify the Entrepreneurial Workforce

Support research and entrepreneurial experiences for individuals from diverse backgrounds by providing \$5,000 to \$100,000 depending on their career level
seed.nih.gov/diversity_supp



Concept to Clinic: Commercializing Innovation (C3i)

Helps medical device innovators translate biomedical technologies from the lab (concept) to the market (clinic)
nibib.nih.gov/research-program/c3i-program

I-CORPS™ AT NIH

Phase I SBIR/STTR teams conduct 100 interviews over 8 weeks to develop a business model canvas
seed.nih.gov/i-corps-at-nih

Bonus Myth

NIH bureaucrats are unapproachable and I shouldn't bother them.

Myth Busted

The SEED Office and NIH program officers, scientific review officers, and grants managers are here to help!

Connect with SEED



Online

<http://seed.nih.gov/>



Email us

SEEDinfo@nih.gov



@nihseed

<https://twitter.com/nihseed>



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<https://www.linkedin.com/company/nihseed>

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<https://seed.nih.gov/subscribe>

The NIH Guide for Grants and Contracts:

<http://grants.nih.gov/grants/guide/listserv.htm>