

NIH Support for Biomedical Product Development

Matt McMahon

Director

SEED (Small business Education & Entrepreneurial Development)

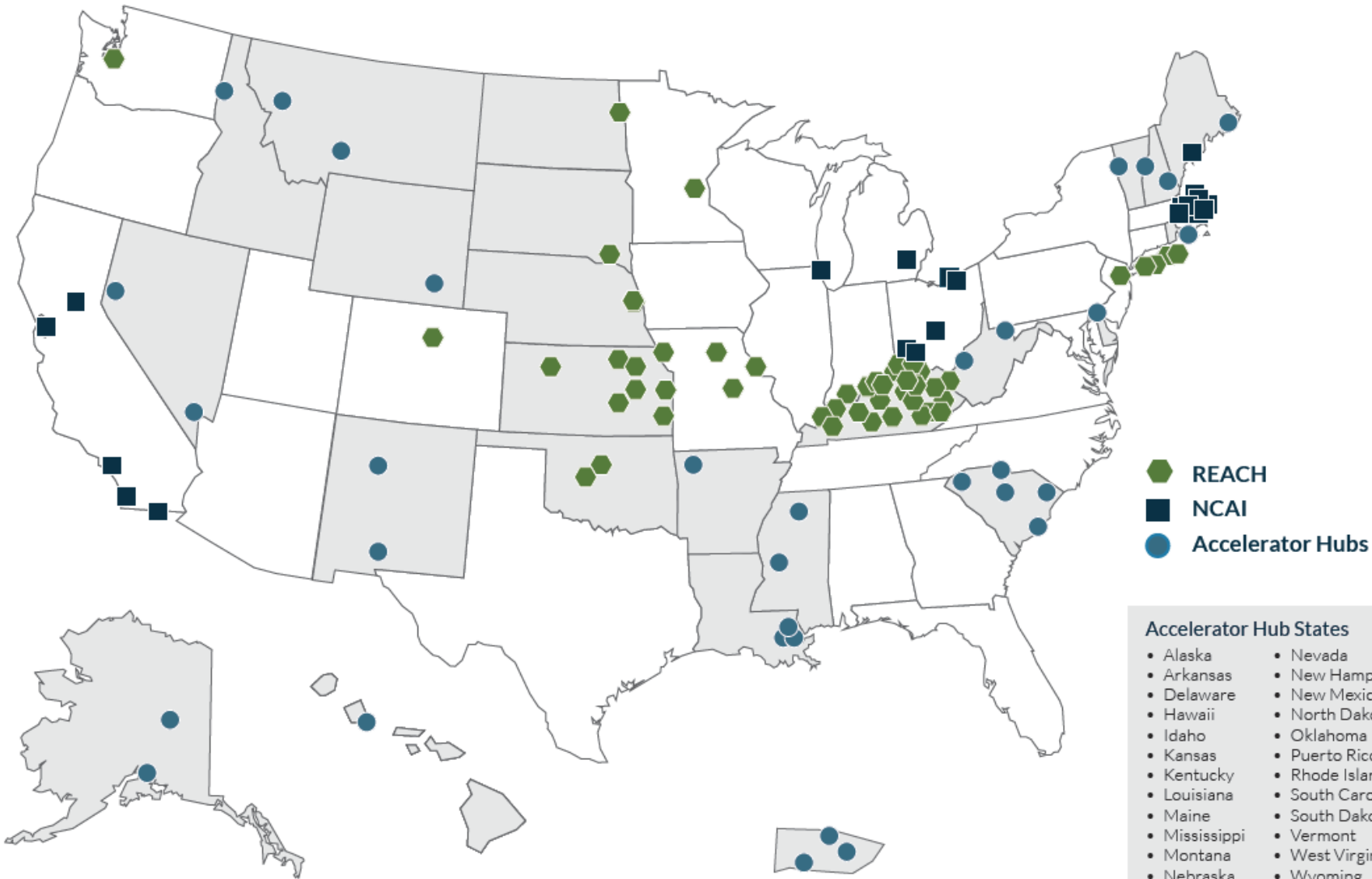
OFFICE OF EXTRAMURAL RESEARCH | OFFICE OF THE DIRECTOR | NATIONAL INSTITUTES OF HEALTH



National Institutes of Health
Turning Discovery Into Health



Network of NIH Proof-of-Concept Centers



 Funding for Product Validation

 Project Management

 Training and Resources

 Personalized Feedback

Network of NIH Proof-of-Concept Centers

Indicators of Success*

403
Projects

111
Startups

\$1.9B
in Follow-On
Funding

145
SBIR/STTR
Applications

49
SBIR/STTR
Awards

10
License
Options

18
Tech
Licenses

3,250+
Academic Innovators w/
Entrepreneurial Training

** Outcomes from NCAI + REACH programs as of July, 2022. Outcomes not yet available for NIGMS' accelerator hubs—tracking in progress.*

NIH Investment = \$52 million to date

\$20 million available for 5 new hubs: due date February 9th!

Changing the Culture of Academic Innovation and Entrepreneurship

Model Term Sheet for University Technology Licensing

Caltech	
Columbia	
Cornell University	
Duke	5AM Ventures
Harvard	Atlas
Indiana University	F-Prime
Johns Hopkins	Omega Funds
MIT	OUP
New York University	Polaris
Stanford	RA Capital
Univ of Michigan	Sofinnova Investments
Univ of Kentucky	Third Rock Ventures
Univ of Pennsylvania	
Yale	

Science

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🔒 | **POLICY FORUM** | ACADEMIC WORKFORCE

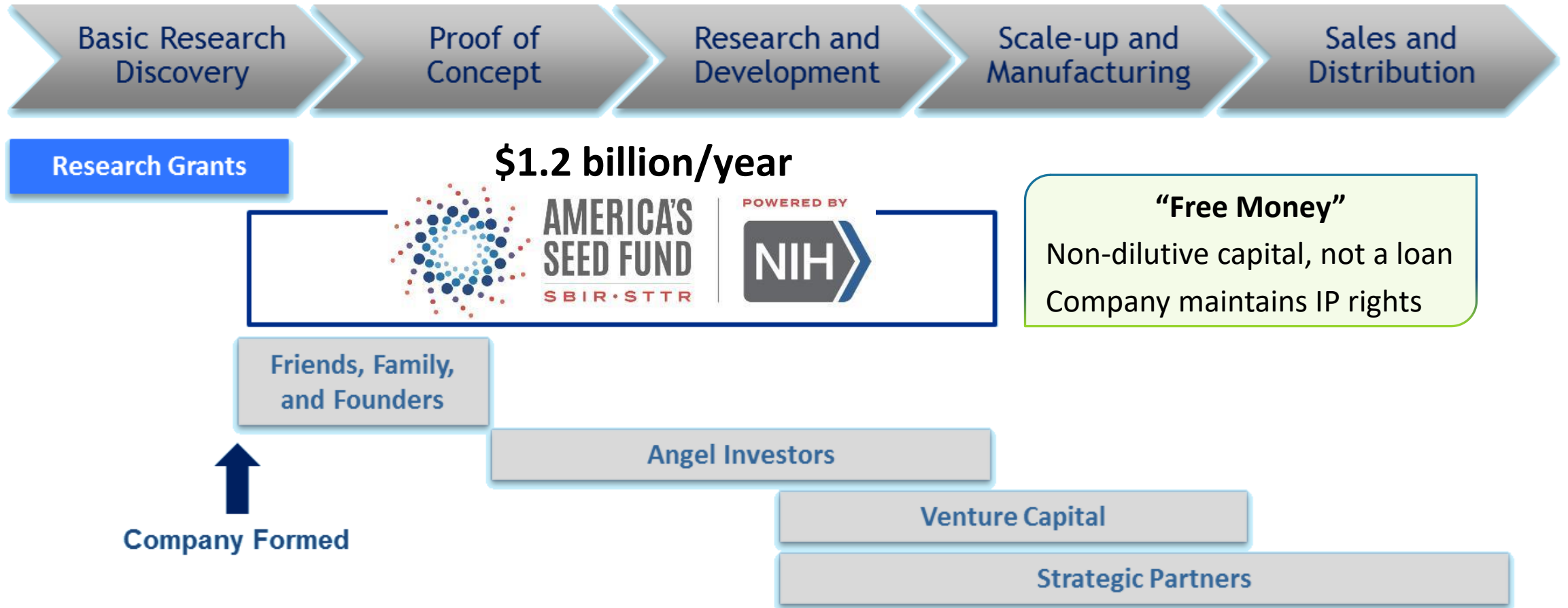


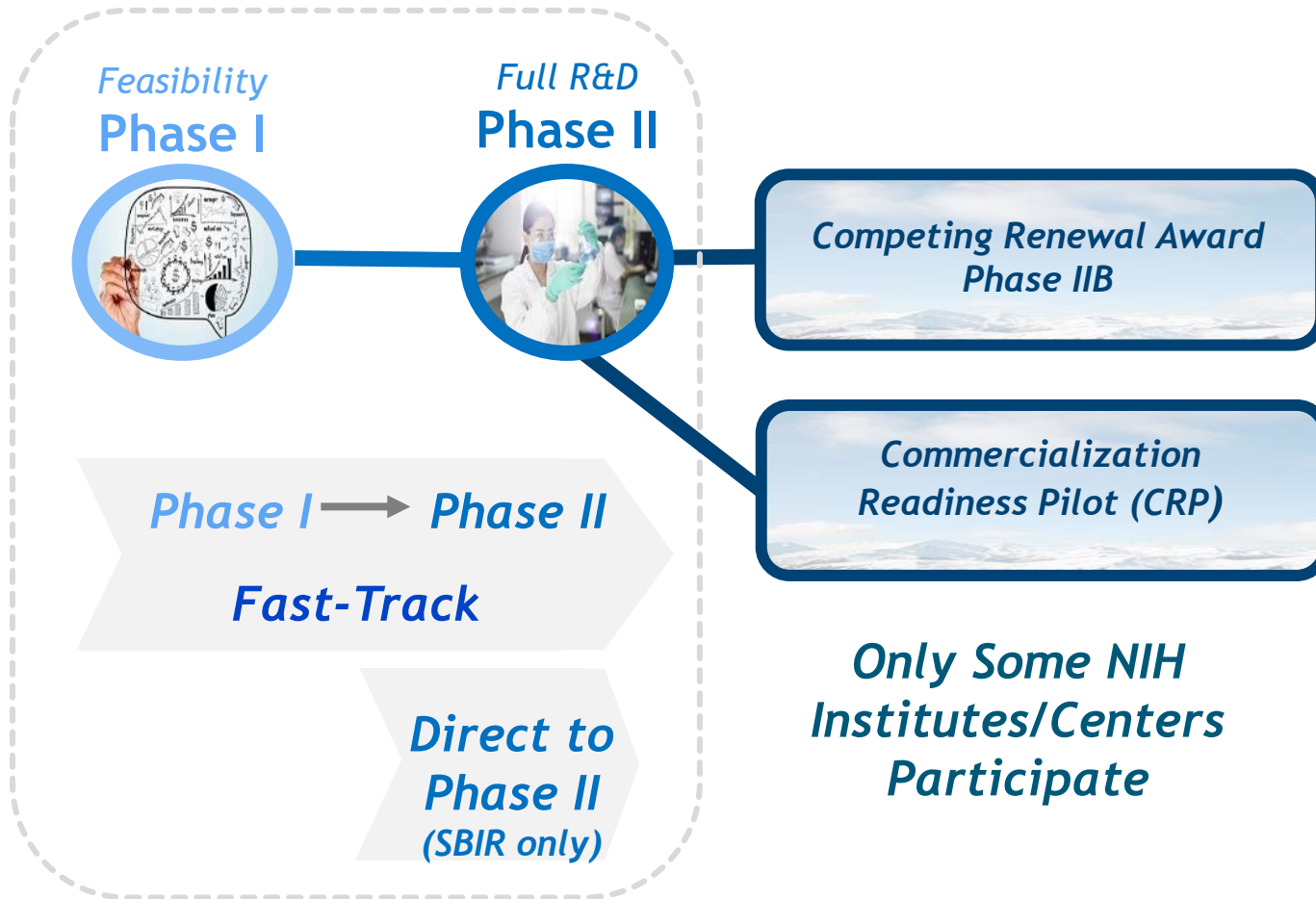
Innovation, entrepreneurship, promotion, and tenure

Academic incentives must reward broader societal
impacts

email techtransferVCstartups@gmail.com for details

The largest sources of early-stage capital for life sciences in the U.S.






SMALL BUSINESS INNOVATION RESEARCH (SBIR) PROGRAM

Small business R&D

SMALL BUSINESS TECHNOLOGY TRANSFER (STTR) PROGRAM

Cooperative R&D between small businesses and U.S. research institutions



Phase I: \$296k / 1-2 years
Phase II: \$2 million / 1-3 years

NIH and CDC have a waiver from the Small Business Administration to exceed these budgets for selected topics

seed.nih.gov

Eligibility

SBIR and STTR
Differences

Application &
Review Process

Grants Policy

SBIR Contracts

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

**Funding Opportunities:
Standard receipt dates:
September 5, January 5, April 5**

Most Important Piece of Advice

NIH SEED
Helping Innovators Turn Discovery Into Health

FAQs | NIH Staff | Contact & Help

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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 FAQ

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 business.

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

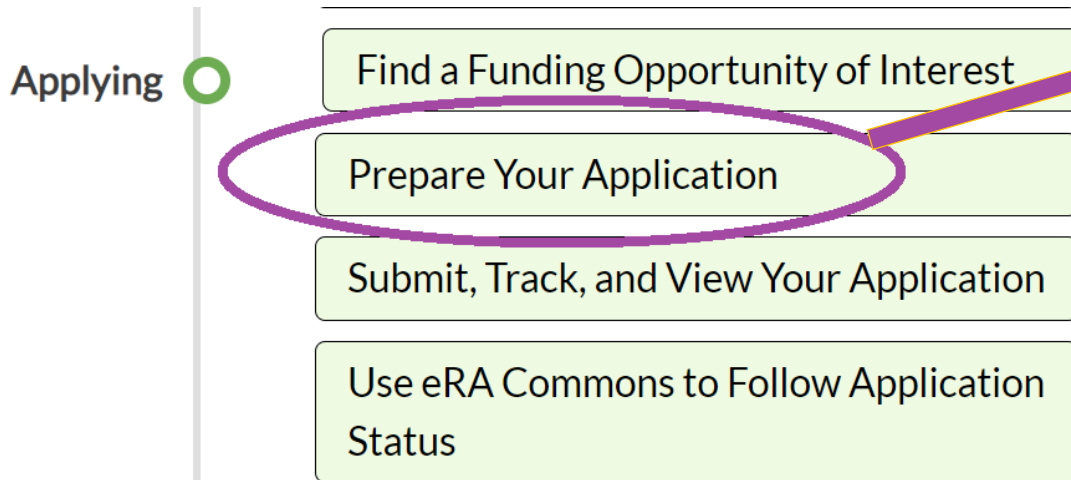
Application Resources

seed.nih.gov/prepareyourapplication

- [Application Instructions](#)
- [Annotated Form Set](#)
- [Sample Applications](#)

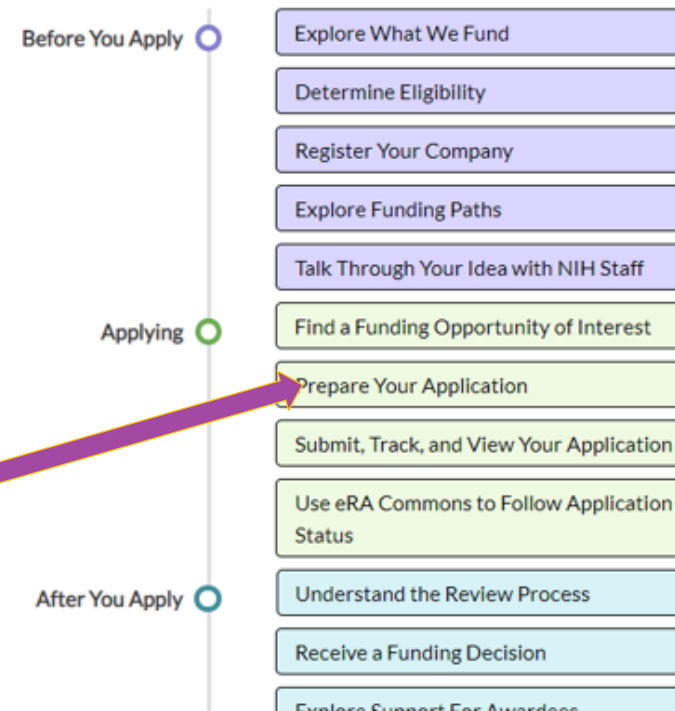
Application Assistance Programs

- [NIH Applicant Assistance Program](#)



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.



Be Prepared to Resubmit



MARY POTASEK, PH.D.

President and Co-founder
NCI Awardee

<https://www.simphotek.com/>



LAVERNE MORROW CARTER,
PH.D.

President and Co-founder
NCI Awardee

<https://www.simphotek.com/>



“ SBIR is a tough route, and people should be aware of that. The reviewers are not concerned about feelings. But take the criticism seriously, correct the things that need correcting and be prepared to resubmit. Don't give up because of a depressing review.”

“ [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.”

Funding for Small Businesses to Diversify the Entrepreneurial Workforce



Request additional funding to support a candidate from a diverse background

Small businesses with active NIH SBIR or STTR award can apply for an administrative supplement to support research and entrepreneurial experiences.

Candidates from all career levels are eligible.

Supplements range between \$5,000 and \$100,000 depending on the candidate's career level.

✓ For more information and resources, seed.nih.gov/diversity_supp.

Technical and Business Assistance (TABA)

<https://seed.nih.gov/support-for-small-businesses/>

TABA Funding

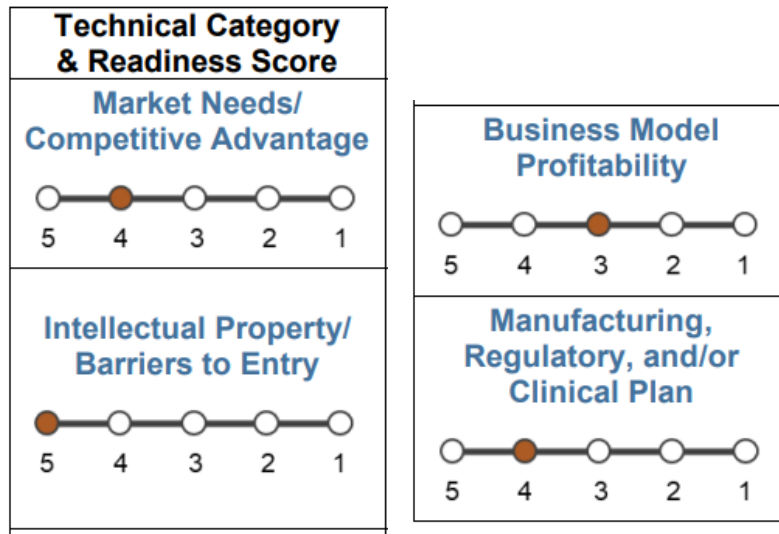
Grantees hire vendors to minimize technical risk and assist with commercialization

Phase I

Phase II

Consulting Services

Needs Assessment Reports



Service Areas



Intellectual Property Strategy and Services



Market Analysis

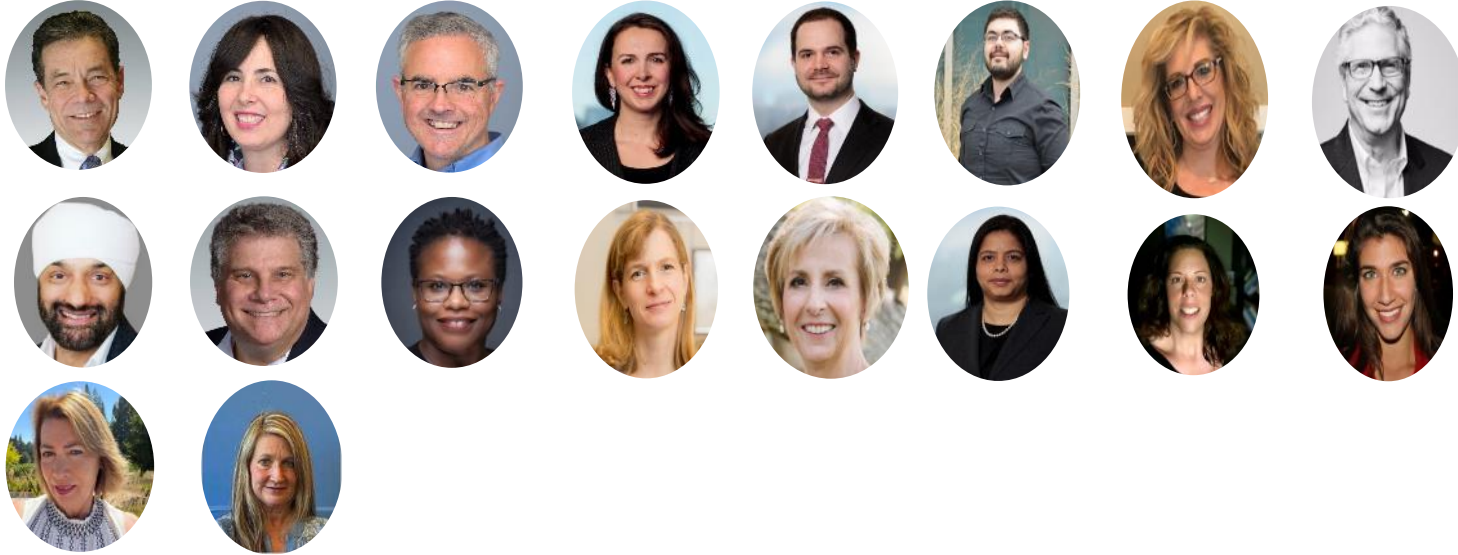


Regulatory Strategy and Services



Reimbursement Strategy and Services

Regulatory & Business Development Consultants



Entrepreneurial Support Programs



Concept to Clinic: Commercializing Innovation (C3i)

Partnering and Investment Opportunities



Powered by  AdvaMed



ANGEL CAPITAL ASSOCIATION



NIH PORTFOLIO COMPANY SHOWCASE

The NIH Company Showcase program prepares SBIR/STTR-funded small businesses to present their value proposition to potential investors and strategic partners. Each company receives one-on-one coaching from industry experts and support to pitch at high profile industry partnering events.



Filter [Clear All](#)

Showcase Event ⓘ

Select ▼

- Angel Capital Association
- BIO
- Landmark Angel Forum
- Life Sciences Summit
- MedTech Color
- RESI/LifeScience

Technology Type ⓘ

Select ▼

- Diagnostic
- Digital Health
- Drug
- Medical Device
- Platform
- Research Tool
- Select All

State

Select ▼

- Connecticut
- Delaware
- Florida
- Georgia
- Hawaii
- Idaho
- Illinois



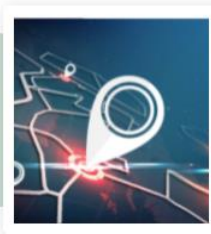
3Helix

3Helix commercializes labeled collagen hybridizing peptide (CHP) that specifically binds to such unfolded collagen chains, enabling unlimited laboratory applications in pathology, biomechanics, cell biology, regenerative medicine, and more. 3Helix is advancing its compounds to enable new pathways to achieving diagnostic and therapeutic objectives.

Contact Name: Yang Li
Contact Email: yli@3helix.com
Website: <https://www.3helix.com/>
City, State – Congressional District: Salt Lake City, UT – 2
Technology: Diagnostic
Primary NIH Institute: Research Infrastructure (ORIP)
NIH Projects: [NIH RePorter for 3Helix](#)
Sponsored Event(s): Life Sciences Summit 2021
Success Story: [Utah Company Develops Research Tool To Detect Diseases Earlier And More Accurately](#)

SUCCESS STORIES

Explore companies that received NIH SBIR or STTR funding for early-stage R&D.



NIH is actively turning discovery into health by helping academic innovators and small businesses develop innovative technologies that improve health and save lives.

Technology

- Diagnostic
- Digital Health
- Drug
- Medical Device
- Research Tool

Development Stage

- Approved for Use
- Early Development
- Human Testing

Innovator Setting

- Academic Innovation
- Small Business
- Women/Minority



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Displaying results 1 to 10 of total 76

Results per page 10

Company / Institution	Story	State - District
Nanovis, LLC	Nanotechnology Promotes Faster Bone Growth Around Spinal Implants	IN - 3

University of Minnesota Research Evaluation and Commercialization Hub [Caring for the Caretakers: Addressing First Responder Burnout with an Online Toolkit](#) MN - 5

85 stories across 41 states



Microbubbles Improve Dangerously Low Oxygen Levels in Cancer and Stroke Patients

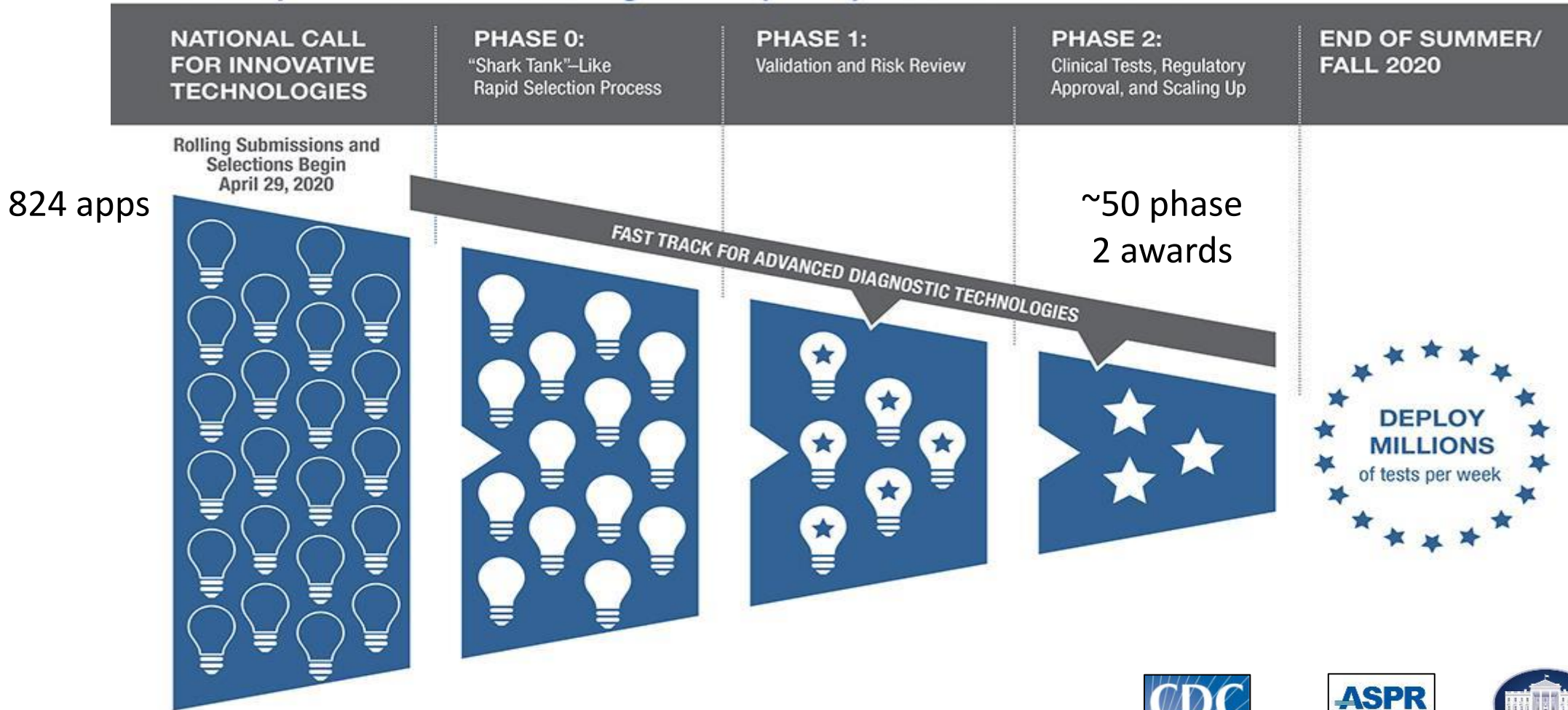


Digital Learning Company Supports Parents, Teachers, and Underserved Communities



Latina-Owned Business Creates Effective Public Health Campaigns

Rapid Acceleration of Diagnostics (RADx Tech)

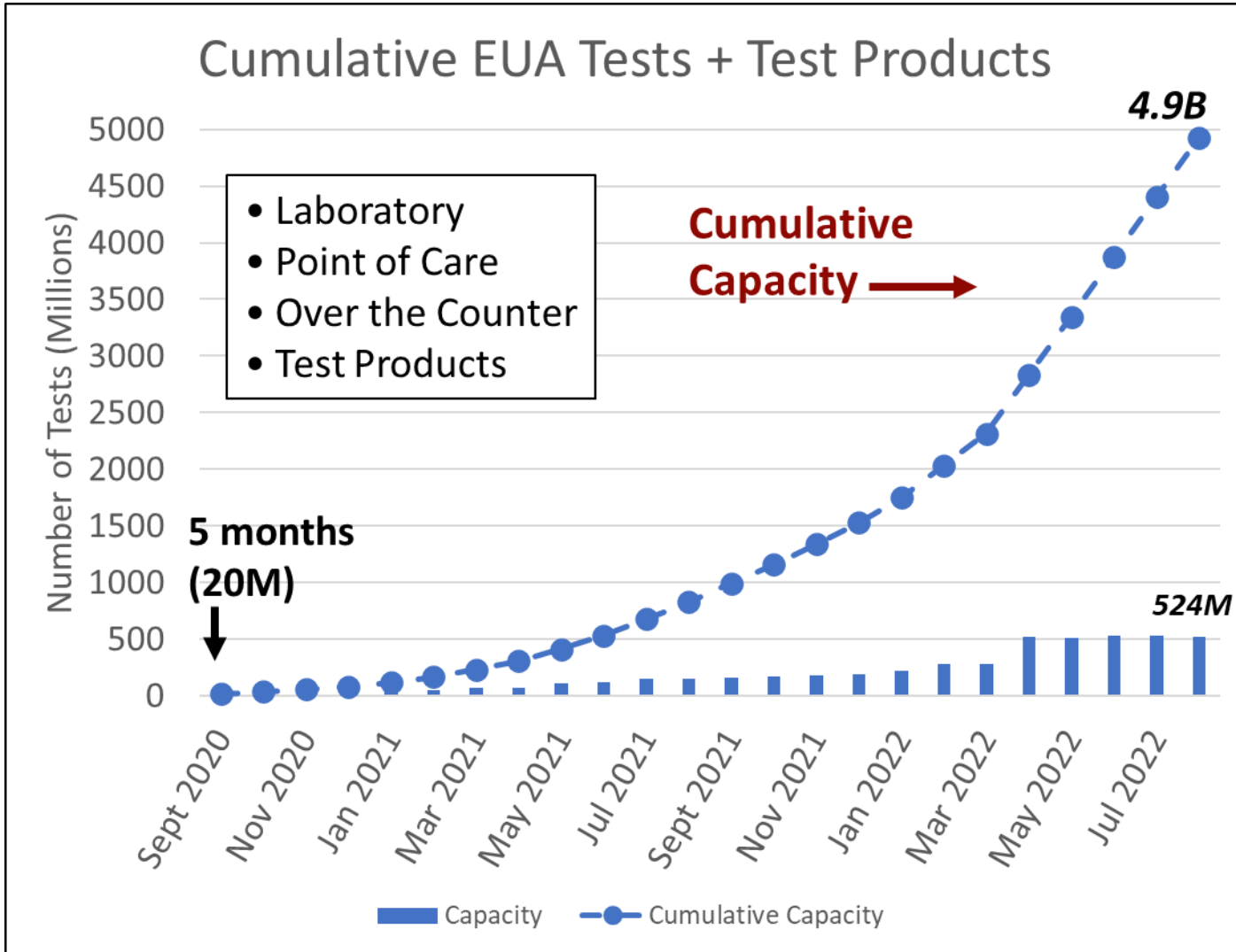


NIBIB Point of Care Tech Research Network

Established 2007, Expanded 2020



50 EUAs (11 OTC) Test capacity > 5 Billion



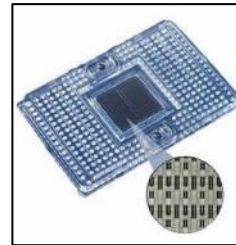
December 2020



Quidel Sophia



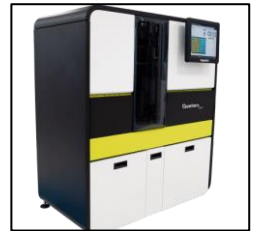
Visby Medical



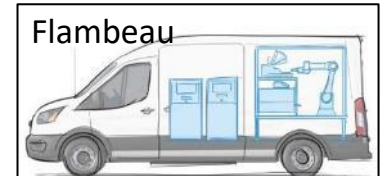
Fluidigm



Luminostics



Quanterix Simoa



Flambeau



Meridian



ANP



Genbody

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SEEDinfo@nih.gov



@nihseed

<https://twitter.com/nihseed>



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The NIH Guide for Grants and Contracts:

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



NIH SEED Events

<https://seed.nih.gov/aboutseed/events>