America's Seed Fund powered by NSF: SBIR/STTR Phase I (NSF 26-510, 'Developing Deep Technologies that Advance U.S. Competitiveness and Security'), Project Pitch then invited full proposal - application draft

Prepared with CapEasy Grant Studio. AI-drafted first draft - review, edit and submit it yourself on the programme's official site. CapEasy is not affiliated with any government agency.

Sample startup (fictional): Ridgeline Materials

Follow-up questions

The Technical Objectives and Challenges - what should the application say here?
Not answered

The Market Opportunity - what should the application say here?
Not answered

Intellectual Merit - what should the application say here?
Not answered

Broader Impacts - what should the application say here?
Not answered

Commercialization Potential - what should the application say here?
Not answered

References Cited - what should the application say here?
Not answered

Budget Justification (limit: 5 pages per Budget Justification (including subaward justifications)) - what should the application say here?
Not answered

Facilities, Equipment and Other Resources - what should the application say here?
Not answered

Project Pitch (submitted first, in NSF's MyWork portal)

The Technology Innovation (3,500 characters)
A low-temperature bonding chemistry that wets and binds chopped reclaimed fiber so the pressed part keeps most of the fiber's stiffness and strength, at a processing cost below virgin-fiber parts.

The Technical Objectives and Challenges (3,500 characters)
[Your input needed: The Technical Objectives and Challenges]

The Market Opportunity (1,750 characters)
[Your input needed: The Market Opportunity]

The Company and Team (1,750 characters)
Dr. Elena Marsh (Co-founder and CEO; Principal Investigator): Polymer chemist with eight years in composites research and a PhD in materials science; leads the bonding-chemistry work.
Tomas Reyes (Co-founder and CTO): Manufacturing engineer; spent six years on composite layup and press tooling at an aerospace supplier.

Phase I full proposal (by invitation after the pitch; sections prescribed by NSF

26-510 and the Project Description instructions on seedfund.nsf.gov)

Project Summary: Overview (1 page maximum for the whole Project Summary (Overview, Intellectual Merit and Broader Impacts, each under its own heading))

A bonding chemistry that turns reclaimed carbon fiber into structural parts again.

Project Summary: Intellectual Merit (Within the 1-page Project Summary)

A bonding chemistry that turns reclaimed carbon fiber into structural parts again.

Project Summary: Broader Impacts (Within the 1-page Project Summary)

A bonding chemistry that turns reclaimed carbon fiber into structural parts again.

Intellectual Merit (Recommend 7-10 pages; Project Description total 10 pages minimum, 15 pages maximum)

[Your input needed: Intellectual Merit]

Company/Team (Recommend 1-2 pages)

Dr. Elena Marsh (Co-founder and CEO; Principal Investigator): Polymer chemist with eight years in composites research and a PhD in materials science; leads the bonding-chemistry work.
Tomas Reyes (Co-founder and CTO): Manufacturing engineer; spent six years on composite layup and press tooling at an aerospace supplier.

Broader Impacts (Recommend 1-2 pages)

[Your input needed: Broader Impacts]

Commercialization Potential (Recommend 1-3 pages)

[Your input needed: Commercialization Potential]

References Cited

[Your input needed: References Cited]

Budget Justification (5 pages per Budget Justification (including subaward justifications))

[Your input needed: Budget Justification]

Facilities, Equipment and Other Resources

[Your input needed: Facilities, Equipment and Other Resources]

Data Management and Sharing Plan

Dr. Elena Marsh (Co-founder and CEO; Principal Investigator): Polymer chemist with eight years in composites research and a PhD in materials science; leads the bonding-chemistry work.
Tomas Reyes (Co-founder and CTO): Manufacturing engineer; spent six years on composite layup and press tooling at an aerospace supplier.

Documents

Still needed: SAM.gov registration with a UEI (free; 'financial assistance' authority only; renew yearly; can take up to three weeks)

Still needed: Research.gov company registration (free; up to 48 hours)

Still needed: SBA Company Registry registration giving an SBC Control ID (free)

Have: Project Pitch invitation email from an NSF SBIR/STTR program officer, converted to PDF (single copy document)

Have: Biographical Sketch for the PI and each Senior/Key Person, prepared in SciENcv (at least one entry in each Products field)

Have: Current and Pending (Other) Support for the PI and each Senior/Key Person, prepared in SciENcv; this proposal itself counts as pending

Have: Collaborators and Other Affiliations (COA) information on NSF's template for the PI and each Senior/Key

Person (single copy document, not seen by reviewers)

Still needed: Synergistic Activities: up to one page listing up to five distinct examples, for each Senior/Key Person

Still needed: Letters of Support (at least one required, three maximum): market validation from customers, partners or investors; not personal endorsements

Still needed: Signed Letters of Commitment from subawardees and consultants (strongly recommended; each consultant letter states availability, time, role and daily rate)

Still needed: IP Rights Agreement or draft (required for STTR; strongly recommended for SBIR with a subaward); executed version needed before an award recommendation

Still needed: Mentoring Plan, 1 page (only when the budget includes a research-institution subaward funding postdoctoral scholars)

Have: Resubmission Change Description (only for a resubmission after a declined proposal and a new invited pitch)

Still needed: Company Commercialization History on NSF's template (only if you certify previous SBIR/STTR Phase II awards from any agency)

Still needed from you

[Your input needed: The Technical Objectives and Challenges]

[Your input needed: The Market Opportunity]

[Your input needed: Intellectual Merit]

[Your input needed: Broader Impacts]

[Your input needed: Commercialization Potential]

[Your input needed: References Cited]

[Your input needed: Budget Justification]

[Your input needed: Facilities, Equipment and Other Resources]