



Amala Consulting

SUNY Startup Summer School: SBIR/STTR 101

- Everyone is muted upon entry
- The chat box is in the bottom right corner, please post questions there

June, 2020



Overview

- ◊ SBIR/STTR Basics
- ◊ Getting Started
- ◊ Structuring & Writing Tips for:
 - > Specific Aims / Objectives
 - > Commercialization Strategy
 - > Research Strategy
 - > Letters of Support
 - > Budget
- ◊ Uploading & Submitting
- ◊ Next Steps



Our Team

Sarah Parks, Founder

GIS analysis, ecosystem services valuation, grant writing, project management, capacity building & report writing



Erin Lennox

Grant writing, technical writing, K-12 STEM education, project management

Jaron Koppers

Grant writing, technical writing, mechanical engineering, report writing, product design, business development, & graphic design

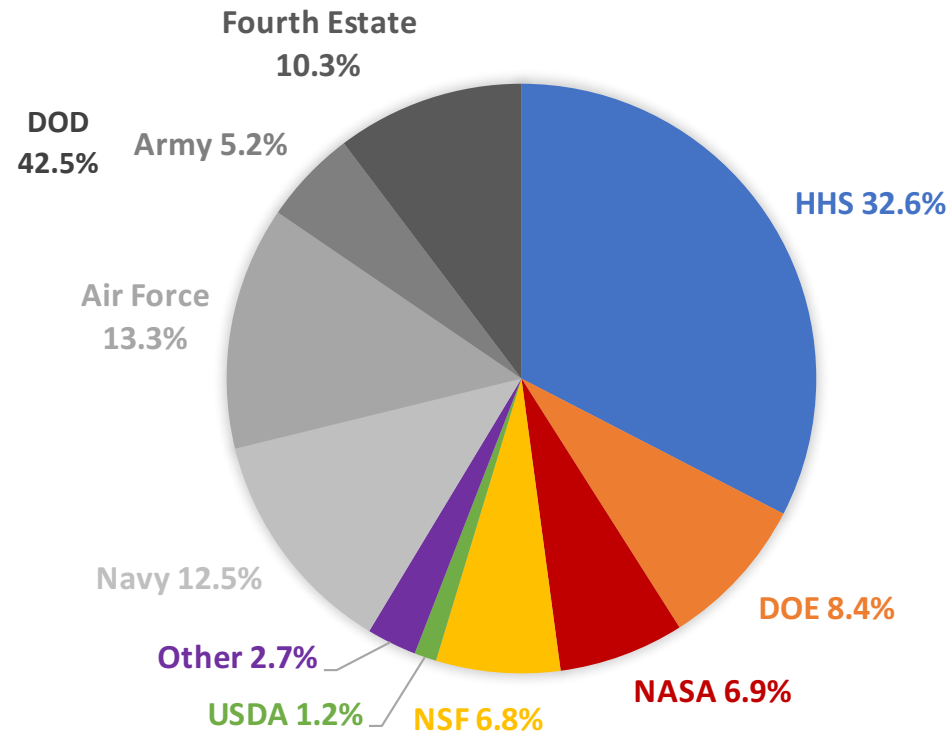




Granting Agencies

◊ SBIR & STTR

- > Department of Defense (DOD)
 - Navy, Army, Air Force,
 - Fourth Estate (DARPA, MDA, DHP, CBD, SOCOM, DTRA, DLA, DMEA, and OSD)
- > Department of Health and Human Services (HHS/NIH)
- > National Science Foundation (NSF)
- > Department of Energy (DOE)
- > NASA





Granting Agencies

◊ SBIR Only ('Other')

- > Environmental Protection Agency (EPA)
- > Department of Commerce (NOAA & NIST)
- > Department of Agriculture
- > Department of Education
- > Department of Homeland Security
- > Department of Transportation (DOT)



SBIR vs. STTR

◊ SBIR

- > PI must be primarily employed (>50% of their time) by the small business
- > Partnership with research institution not required, but is allowed (can complete up to 33% of the work)

◊ STTR

- > PI can be employed by either small business or research institution
- > Small business must complete >40% of work, research institution must complete >30%



Phases and Amounts

◊ Phase 1: ~\$225,000

- > To “establish the technical merit, feasibility, and commercial potential”
- > 6 -12 months (depends on agency)

◊ Phase II: ~\$1,000,000

- > To: “continue the R/R&D efforts initiated in Phase I”
- > Generally 2 year limit

◊ FastTrack: ~\$1,150,000

- > Combined Phase I & II application
- > to “bypass a Phase I award if they have already proved the feasibility of their technology”

◊ ~~Straight to Phase II: Rarely Recommend~~



Deadlines

Agency	Deadlines*
DOD	Feb, June, Oct
NIH/HHS	Jan, April, Sept
NSF	June, December
NASA	January
DOE	Feb, October

*Deadlines change each year, check solicitations for exact dates



Success Rates & Deadlines

Agency	SBIR		
	Phase I		Phase II
	Success Rate	'Corrected'	Success Rate
HHS	12%	11%	50%
DOE	20%	17%	45%
NASA	26%		42%
NSF	14%		57%
USDA	16%		52%
Navy	19%	14%	76%
Air Force	16%	13%	45%
Army	12%	6%	42%
Fourth Estate	19%	15%	41%

Based on last reported year, 2016 data



Success Rates & Deadlines

Agency	STTR		
	Phase I		Phase II
	Success Rate	'Corrected'	Success Rate
HHS	14%	14%	39%
DOE	18%	16%	46%
NASA	45%		35%
NSF	19%		22%
USDA	n/a		
Navy	35%	30%	73%
Air Force	32%	29%	48%
Army	31%	31%	41%
Fourth Estate	21%	18%	52%

Based on last reported year, 2016 data



Getting Started

- ◊ Check out the Agency's SBIR/STTR website
 - > Determine their deadlines and focus areas
 - > Watch their webinars
 - > Read past abstracts
 - > Determine if there is a good fit
 - > Look for 'seeded' / tailored topics
- ◊ Write your 1 page pitch or letter of intent (LOI)
- ◊ **Contact your program officer**
 - > **Set up a call, and/or submit a LOI**



Structuring and Writing

❖ Develop your Objectives or Specific Aims

- > Keep it simple and feasible
 - 2-3 aims for Phase I
- > Always be looking ahead to Phase II
- > Make your timeline reasonable (it can take up to a year to get your funding and award results)
- > Stress lineage (or build on your past success)
- > Keep commercialization in focus



Structuring and Writing

◊ Writing your Research Strategy

- > Present clear deliverables and milestones
- > Be explicit, tell them Who, How, and Where
- > Include risks and mitigation strategies
- > Use your contacts and associations to prove capability
 - Business incubator and maker spaces memberships
 - Mentors
 - Access to campus lab space and specialty manufacturing space
- > Remember you are writing to academic experts in your field
 - Use technical and scientific terms and methods
 - Expect that they will know the norms and methods used for research



Structuring and Writing

❖ Develop your Commercialization Strategy

- > Use SUNY Startup resources
- > Show that you know your market & competitors
- > Explain your value proposition
- > Rely on partnerships and letters of support (more later)
- > Demonstrate that you have a business plan
 - Will you license the technology? Manufacture in house? Sell your core IP?
 - How will you deal with IP?
 - What is your exit strategy?
- > What is your Technology Readiness Level?



Structuring and Writing

◊ Know your Audience:

> Panel consisting of

- Technical reviewers most likely with expertise in your research area
- Industry or commercialization experts (less for Phase I)
- Program directors/managers (with potentially technical and commercial expertise)



Structuring and Writing

◊ Budget

- > Think through division of funds between small business, university partner, and outside contractors when developing your research plan
 - SBIR: small business must spend 67%
 - STTR: small business must spend 40%, university must spend 30%

- > More details at our Budget Webinar: July 8th



Structuring and Writing

- ◊ Be a 'real' company financially speaking:
 - > Shore up your bookkeeping in expectation of Phase II
 - Get an accountant and if necessary a bookkeeper
 - Get professional accounting software
 - Prepare your books as though you are going to be audited
 - > Make time sheets
 - > Track overhead rates
 - > Prepare for an audit
 - > NSF now lets you dip into your Phase I budget to pay for some of this!



Letters of Support

- ⦿ These are very important: Use them wisely
- ⦿ Each agency has a different number or limit (3 or so)
- ⦿ Start Early, give a false early deadline
- ⦿ They must come from a stakeholder (ideally at least one customer stakeholder)
- ⦿ They must do more than just say “this is a good idea” but should be from people who will be involved in testing, business development, technology development, etc.
- ⦿ Write them yourselves, speak to:
 - > Their merit
 - > Your history of collaboration
 - > How they will support you



Uploading and Submitting

- ◊ Start gathering required numbers and certifications
 - > Get your DUNS number
 - > Register your Small business
 - > SAM (System for Award Management) registration
 - > Start your women or minority owned business certification (not required)
- ◊ Make your FastLane/eRA Commons/Grants.gov etc... Account Early
 - > Fill pieces out as soon as you can
 - > Get your business in order
 - > Your website should look legitimate
- ◊ Allot an entire day to navigating the above websites just for submission
- ◊ Help Desks are amazing but not available day of submission generally



Working with Amala

◊ Ready to start writing?

- > Reminder to see Kate Baker's presentation
- > Attend the Budget Workshop



Common Reasons for Poor Success

- ❖ Innovation is not original or scientifically valid
- ❖ Ignorance of relevant published work
- ❖ Naivety in commercialization/business strategy
- ❖ Proposal rife with formatting/grammar/spelling errors
- ❖ Superficial, or unfocused research plan (give lots of experimental details!)
- ❖ Lack of experience in the proposed methodology
- ❖ Proposal scope, timeline, and budget do not mesh
- ❖ DOD: Little understanding of jargon and structure
- ❖ Bad luck with reviewers...

Don't be deterred by a rejection your first submittal!



Our Services

- ◊ Grant Writing and Fund Development
- ◊ Capacity Building
- ◊ Project Management
- ◊ Research and Report Writing
- ◊ Business Development
- ◊ Content Development
- ◊ Graphic Design - Brochures, websites, case statements, logos
- ◊ Geographic Information Systems (GIS)/Mapping
- ◊ Ecological Economics Projects



Amala Consulting

Questions?

Contact us:

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