



Jenny C. Servo, Ph.D. Dawnbreaker

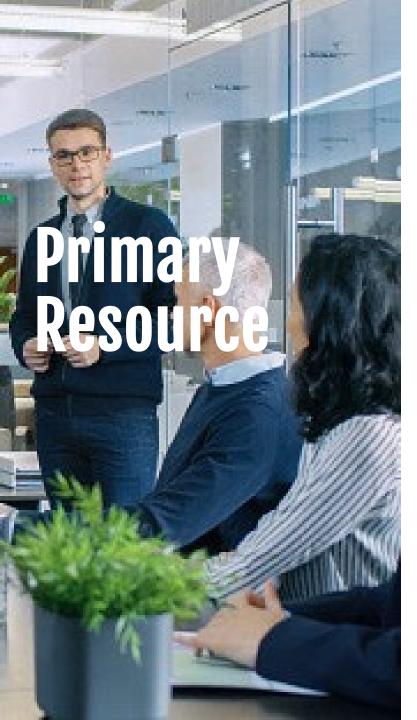
January 10, 2025

AGENDA

- Schedule
- Key documents
 - Please
- Letter of Intent (LOI)
 - Purpose
 - PAMS
- Overview of the DOE SBIR/STTR application package







https://science.osti.gov/sbir/Funding-Opportunities

2025

Phase I	Release 1	Release 2	
Topics Issued	Monday, July 8, 2024	Tuesday, November 12, 2024	
Document	Phase I Release 1 Topics	Phase I Release 2 Topics	
Phase 0 Application Assistance (free for first time applicants) starts	Monday, July 8, 2024	Tuesday, November 12, 2024	
Topic Webinar, week of	Webinar 1: Topics 1-11 Slides Webinar 2: Topics 12-22 Slides Webinar 3: Topics 23-33 Slides Slides	Webinar 1: Topics 1, 20-21, 32-33 Slides Webinar 2: Topics 2-10 Slides Webinar 3: Topics 11-16 Slides Webinar 4: Topics 17-19 & 22-31 Slides	
NOFO Issued	Monday, August 5, 2024	Friday, December 27, 2024	
Document	DE-FOA-0003417 🗟	DE-FOA-0003504	
NOFO Webinar	Thursday, August 8, 2024 (Webinar) Slides Friday, August 9, 2024 (Q&A)	Thursday, January 2, 2025 (Webinar) → Slides → Friday January 3, 2025 (Q&A) →	
Letters of Intent (LOI) Due	Tuesday, August 27, 2024 5:00pm ET	Tuesday, January 14, 2025 5:00pm ET	
Non-responsive LOI Feedback Provided	Monday, September 16, 2024	Monday, February 3, 2025	
Full Applications Due	Tuesday, October 8, 2024 11:59pm ET	Wednesday, February 26, 2025 11:59pm ET	
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KEY DOCUMENTS

*Check periodically for amendments

- Topics Document*
- Notice of Funding Opportunities (NOFO)* (was amended today)
- DOE SBIR/STTR Phase I Grant Application Guide
- DOE Phase 0 Tutorials

If you find inconsistencies, always follow the information in the NOFO



DOE SBIR/STTR Topics Document

- The topics document states IF, you can submit an SBIR or STTR proposal in response to a topic.
- The topics document indicates the award ceiling on each topic
- A contact's name is provided for many subtopics
- The topics document may be updated from time to time
- You must respond to a Topic and a Subtopic



Department of Energy (DOE) Office of Science (SC) Small Business Innovation Research (SBIR) / Small Business Technology Transfer (STTR)



FY25 Phase I Release 2

Notice of Funding Opportunity (NOFO) Number: DE-FOA-0003504

NOFO Type: Amendment 000001 CFDA Number: 81.049

Amendment 000001: This amendment updates the Letter of Intent Response Date to February 3, 2025.

NOFO Issue Date:	December 27, 2024		
Submission Deadline for Letters of Intent:	January 14, 2025 at 5:00PM Eastern Time		
	A Letter of Intent is required.		
Letter of Intent Response Date	February 3, 2025		
Submission Deadline for Applications:	February 26, 2025 at 11:59PM Eastern Time		



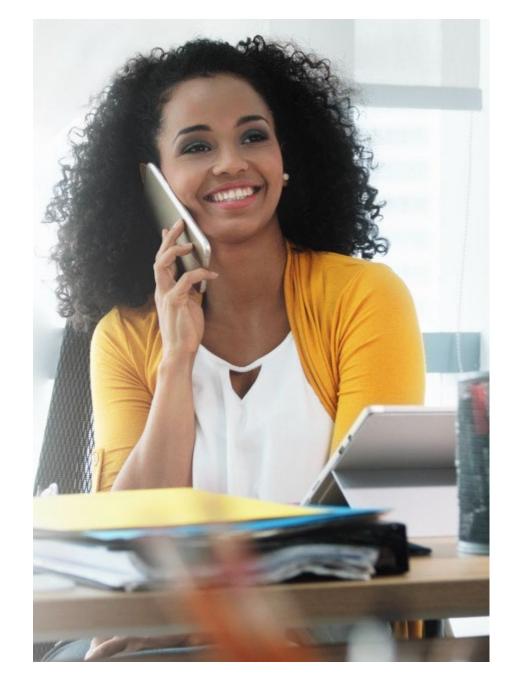


Letter of Intent (LOI) Instructions

An essential gate!

Why does DOE have a Letter of Intent (LOI)

- Congress has asked agencies participating in the SBIR/STTR programs to announce their awards within 90 days of application submission deadlines
- To do this, DOE selects reviewers early.
- The LOI enables them to do this



Lets' talk about LOIs

 Submitted through the Portfolio Analysis and Management System (PAMS)

https://pamspublic.science.energy.gov/webpamsepsexternal/login.aspx

Grants.gov	800-518-4726 (toll-free)		
Customer Support	support@Grants.gov		
PAMS	855-818-1846 (toll-free)		
Customer Support	301-903-9610		
	sc.pams-helpdesk@science.doe.gov		
Technical/Scientific	Please refer to the appropriate DOE Program Manager listed		
Program Contact	after each subtopic in the accompanying DOE SBIR/STTR		
	Topics document located on the DOE SBIR/STTR Programs		
	website at https://science.osti.gov/sbir/Funding-Opportunities .		
Administrative Contact	Carl Hebron, (301) 903-5707, SBIR-STTR@science.doe.gov		
(questions about budgets			
and eligibility)			

Contacts from Page 2 NOFO

Letter of Intent (LOI) guidelines, Pg 26

- Title of LOI
- Pl Name, Job Title
- Institution
- PI Phone Number, PI Email Address
- NOFO Number (on cover)
- Topic number/Subtopic letter, e.g. C60-01a

- The Title is important
- It will be used on all key docs
- It should signal what your project is about



Letter of Intent (LOI) guidelines, Pg 26

- Include a list of all senior/key personnel at the applicant and team member institutions
- This information must be followed by a clear and concise description of the objectives and technical approach of the proposed research. Your technical abstract should sufficiently describe your technology and application. It must provide sufficient technical depth to allow DOE to assign technical reviewers for your application. Please note that your abstract should not contain any proprietary information.
- 2 pages 11 point, 1 inch margins all sides

Remember

- The LOI is NOT a letter
- It needs to clearly relate to the topic/subtopic pair
- It IS a technical abstract
 - Objectives
 - Technical approach
- Write in paragraph form, not outline form
- Do not include proprietary information



Anatomy of Topics document

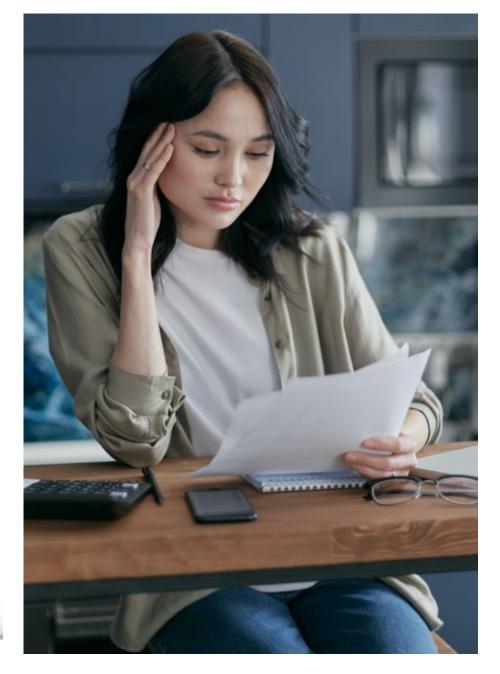


Topic #

Subtopic letters

RESPON	SE10
C60-0	1. MALICIOUS EVENT DETECTION, DIAGNOSIS, AND RISK MITIGATION10
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b.	Distribution Substation Ballistic Risk Mitigation (IIJA)
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a.	Digital Twin Technology for Quality Assurance of Clean Energy Products17
b.	Compiler-Based Approaches for Secure by Design for Industrial Control Systems
c.	Acoustic and Electric Field-Assisted Manufacturing for Better Batteries, Power Electronics, and
Mic	roelectronics
d.	Efficient & Responsible Critical Material Refining
e.	Mechanical Recycling of Textiles
C60-0	
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C60-0	
a.	Bioenergy Feedstock Logistics Improvements (EES)
C60-0	5. BUILDING TECHNOLOGIES OFFICE
a.	Windows
b.	Affordable TES Systems
C.	Advanced Air Leakage Detection and Air Sealing Technologies
d.	High Performance Insulated Cladding for Residential Field Applied Applications
e.	ResStock Data Analysis Tool for States and Local Governments
f.	Multifamily Energy Use Data Research41
g.	NO2 monitors41
h.	Heat pumps for manufactured houses
i.	Easier & More Accurate Manual J Technology
j.	Serviceable Mini-Split/PTHP/PTAC
k.	Highly Efficient Dehumidification
l.	Heat Pump Water Heater (HPWH) Installation Cost Reduction
C60-0	6. GEOTHERMAL HEATING AND COOLING45
a.	Low-impact drilling systems for GHPs
h.	Rapid Site Assessments for Geothermal Heat Pumps

PROGRAM AREA OVERVIEW: OFFICE OF CYBERSECURITY, ENERGY SECURITY, AND EMERGENCY







- You can still submit an application if you receive a nonresponsive letter from DOE
 - DOE only sends an email to those whose LOIs are non-responsive
 - You can only submit an application based on the LOIs that you submit.
 - You cannot just change topics/subtopics
 - You can submit multiple LOIs

New addition

• Feedback to responsive applicants will be provided to the following topics: C59-01, 03, 04, 09, 10, 11, 12. Responsive feedback may include encouragement or discouragement to submit a full application





Registrations

- PAMS
- SAM
- SBA Company Registration



System for Awards Management (SAM)

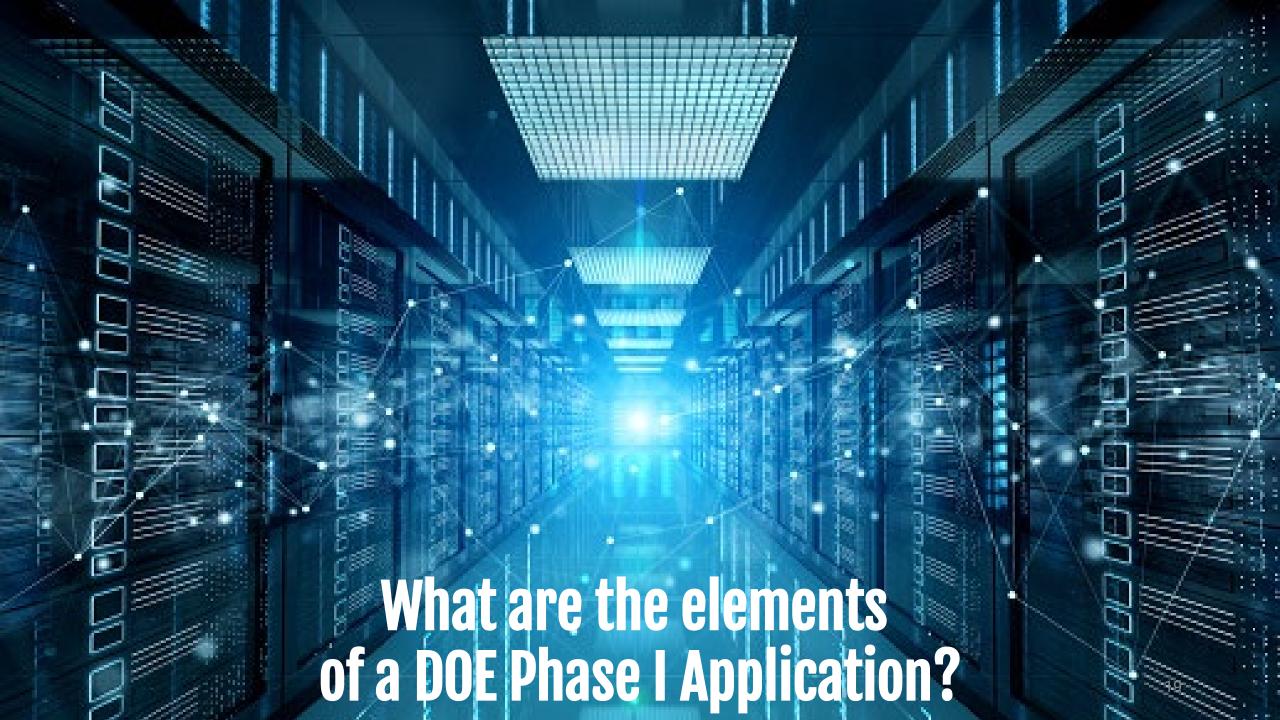
- If you are planning to apply for a federal grant or contract, complete this at any time
- This process is currently taking two-to-three months to clear
- To minimize delays in the registration process:
 - Always use the same company name and address (no variations)
 - Make sure that this is the same information that you use with IRS
 - Keep copies of your SAM password and UEI handy
 - Check trash for CAGE code still currently coming from DLA (Defense Logistics Agency)
 - Work with a local Procurement Technical Assistance Center (PTAC)
 - https://www.aptac-us.org/find-a-ptac/?state=PR



Implications

 Some companies that start their SAM registration as soon as they start working on their proposal, have not received information in time to submit their proposal

You can't submit a responsive proposal, If you are not registered with SAM



What is the structure of DOE Phase I application package?



- In order to apply for a DOE SBIR/STTR award you need to:
 - First submit a Letter of Intent (LOI) through the system called Portfolio Analysis and Management System (PAMS)
 - Prepare a research proposal (called a "Project Narrative")
 - and a Commercialization Plan
 - with an accompanying budget and
 - Resumes (biographical sketches) of those who will do the work
 - A PIER plan
 - A public abstract
 - A variety of forms and attachments
 - Register with the System for Awards Management (SAM)
 - Submit the application through a system called Grants.gov



The Project narrative is the heart of the proposal

Cover Page

Proprietary Data Legend

- 1.0 Identification and Significance of the Problem or Opportunity, and Technical Approach
- 2.0 Anticipated Public Benefits
- 3.0 Technical Objectives
- 4.0 Work Plan
- 5.0 Performance Schedule
- 6.0 Facilities/Equipment
- 7.0 Research Institution
- 8.0 Other Consultants and Subcontractors
- 9.0 Bibliography and References Cited





Start the Projective Narrative next



First two sections of Project Narrative Pgs 33-35 of NOFO

- Identification and Significance of the Problem or Opportunity, and Technical Approach Define the specific technical problem or opportunity addressed by your application. Provide enough background information so that the importance of the problem/opportunity is clear. Indicate the overall technical approach to the problem/opportunity and the part that the proposed research plays in providing needed results.
- Anticipated Public Benefits Discuss the technical, economic, social, and other benefits to the public as a whole anticipated if the project is successful and is carried over into Phases II and III. Identify specific groups in the commercial sector as well as the Federal Government that would benefit from the projected results. Describe the resultant product or process, the likelihood that it could lead to a marketable product, and the significance of the market.

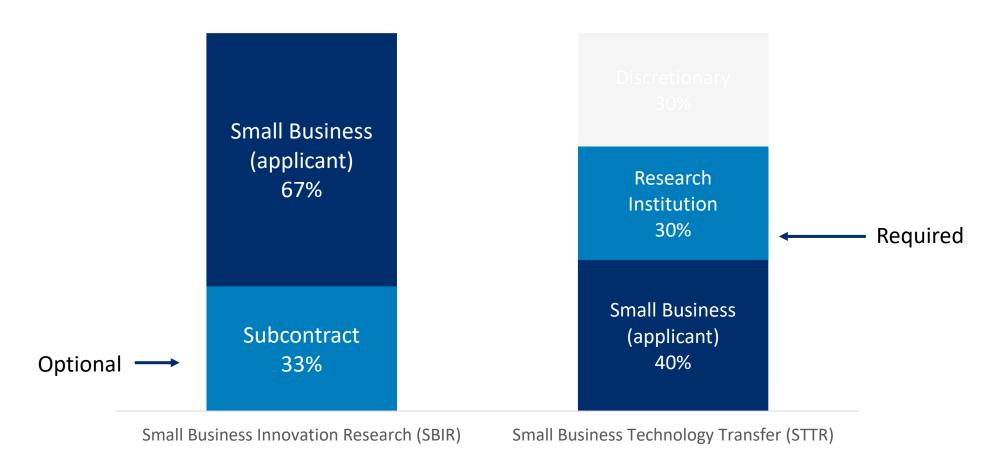
1/10/2025

How big is the proposal / application?



Item	Project Narrative	Commercializ ation Plan	Budget justification	Biographical sketches	Project Abstract	PIER Plan
Page numbers	15 pages, cover doesn't count	4 pages	Not specified	Use form	1 page	No more than 3 pgs
1/10/20 25	Follow guidelines in DOE Funding Opportunity Announcement (FOA)	Follow Guidelines Under Applicant Resources	Stay within budget. Use Budget Justification form	Follow guidelines in Instructions for Completing a DOE SBIR/STTR Phase I Grant Application	PDF format	Appendix to Project Narrative
25						

What's the difference between SBIR and STTR?



The small business is ALWAYS the applicant and awardee!







Administrative Review Process

- Every agency conducts an Administrative review first
- If the proposal does not pass the Administrative review step, it will not go though Scientific/Technical review and will be declined
- Common reasons for NOT passing the administrative review include:
 - The proposed budget is higher than what the agency allows in Phase I
 - Some of the required forms were NOT included
 - The company did not adhere to the page count, margins, etc.
 - The proposal was not for research and development
 - The proposal was submitted after the deadline



How to pass Administrative Review?

When you review an agency solicitation,

- Read the application guidelines very carefully
- Prepare a PPT to share with others who are assisting you and include
 - The due date a time
 - Any guidelines regarding page limits, font type and size, margins, markings
 - Budget for Phase I awards
 - Evaluation criteria
 - See if a checklist is included in the solicitation
 - Determine through which system the SBIR/STTR application must be delivered
 - Generate a list of all forms that must be completed
 - Note any additional registrations, besides the three mentioned earlier
 - Note any initial steps that affect your ability to submit an application, later





Write to the evaluation criteria!



Technical Plan – the Heart of the Proposal

- Every solicitation requires that you draft a technical plan, which may be called different things depending on the agency. For example
 - Project Narrative (DOE, USDA)
 - Technical Volume (DoD, NASA)
 - Project Description (NSF)
 - Research Plan (NIH)
- This section is the heart of the proposal and the key part that reviewers will evaluate. Be sure that you review the evaluation criteria, presented in the solicitation, before you start drafting this section.



Follow the Outline Precisely

- The sections that an agency wants to see in the technical plan, are unique to that agency
- The agency provides an outline in the Phase I solicitation
- Follow the outline precisely
- This makes it easy for reviewers to find information they need to evaluate
- Build this document in stages and secure feedback as you develop
- Gradually winnow down to the page length to that specified





DOE Evaluation Criteria (pg 75)



2. Merit Review Criteria

DOE plans to make selections for Phase I awards from those applications judged to have the highest overall merit within their technical program area, with equal consideration given to each of the following criteria:

Strength of the Scientific/Technical Approach as evidenced by

- (1) the innovativeness of the idea and the approach,
- (2) the significance of the scientific or technical challenge, and
- (3) the thoroughness of the presentation.

Ability to competently carry out the project as evidenced by

- (1) the qualifications of the PI, other key staff, subcontractors and consultants, if any, and the level of adequacy of equipment and facilities;
- (2) the soundness and level of adequacy of the work plan to show progress toward proving the feasibility of the concept; and
- (3) the degree to which the DOE investment in the project would be justified by the level of proposed research effort.

Impact as evidenced by

- (1) the significance of the technical and/or economic benefits of the proposed work, if successful,
- (2) the likelihood that the proposed work could lead to a marketable product or process,
- (3) the likelihood that the project could attract further development funding after the SBIR or STTR project ends, and
- (4) the appropriateness of the data management plan for the proposed work.

Quality and Efficacy of Promoting Inclusive and Equitable Research (PIER) Plan, as evidenced by:

How do I keep this simple!?

- Understand what is the most important
 - The Project Narrative
 - Evaluation criteria: Innovation, Team, Facilities
- Know where and when to get help!
 - For those in the Phase 0 program we will help you
 - For others reach out to your local Small Business Development Center and/or Procurement Technical Assistance Center
 - Listen to the Tutorials on <u>DOE Phase 0 website</u>
 - Podcasts and PDFs



Thank you for joining me today!

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