

Congratulations on embarking on the journey to grant writing preflight certification. This certification program is self-guided. While it has been designated as a five-day program, you may need to spend more than one day finishing the assignments for each module. The requirement for certification is submission of two deliverables: 1.) Preflight Grantsmanship Tool in the table below, 2.) A preliminary executive summary for your project. You will use the Preflight Grantsmanship Tool to write your summary.

Deliverable 1.

Directions: Complete the table using information that will move your proposal writing forward. This tool will help you organize your ideas, experience, and plan for writing your first few proposals. The webinars provide insight regarding these topics. Additional resources are available and listed with every webinar. This tool will be submitted for granting your certification.

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Module/Day 1	
Identifying Fundable Ideas	
Potential grant ideas	
Consider your areas of expertise: pedagogical	
methods you use, community outreach	
initiatives in which you are involved or	
interested, other interests, post-doctoral and	
graduate training, etc.	
Identify your Assets	
What resources do you have access to for	
conducting research (i.e. study population,	
equipment)	
Intersection of Expertise and Assets	
What is the intersection of your expertise	
and your assets?	
Fundable Ideas	
How can the intersection of your area of	
expertise and assets innovate education or	
technology, enhance STEM education	
research, engage community outreach,	
advance interdisciplinary research, expand	
implementation science, etc.?	
Current	Research
Hint: Start with Google Scholar limited to the	ne last few years for work done in this area.
Resources	
Keep track of the sources you use. This will	
be useful as you write your proposal. List	
three resources you will use for writing your	
proposal here.	



Increase Knowledge	
What is currently being done in your area of	
interest?	
Current Researchers	
Who is doing this research? Where is it	
being done? Identify current projects on the	
cutting edge of this work.	
Current Funders	
Who is funding this research? You can find	
this information in the funding	
acknowledgements of articles or author's	
website.	
Ment	orship
Mentoring areas	
Identify areas in which you would like to be	
mentored/ask advice.	
Potential mentors	
Identify potential mentors in your research	
area; in the literature; in your network that	
are a good match; from the HSI STEM	
Professionals Network, etc.	
Ideas for discussion with a mentor	
List ideas that you would like to discuss with	
the potential mentors you identified.	
Include potential mentor's name.	
Reaching out	
List the mentors that have agreed to assist	
you with your proposal ideas.	
Modul	e/Day 2
Finding Grant	Opportunities
Federal Grants/Cooperative Agreements	
Using Grants.gov find a potential grant	
opportunity that you would like to explore	
for your research area include forecasted	
and posted opportunities in your search.	
You will work on a preliminary project	
summary for this opportunity. Choose a	
grant that you plan to submit an application	
to.	



Additional Information	
Using Grants.gov choose one grant	
opportunity for this exercise. List at least	
three resources you find useful in the	
additional information section of the	
synopsis.	
Previous Awards	
Using Grants.gov locate three abstracts for	
previous awards for this source of funding.	
Download those for your use. List the titles	
and links to these abstracts.	
Subscriptions	
Using Grants.gov identify at least three	
subscriptions that are relevant to your	
research area. List them here.	
Problem 5	Statement
Identify the Need	
Why is the program you are proposing	
needed? How does this align with funding	
agency priorities?	
Broader Impact	
Who is your target population? How will	
people benefit from your work?	
Supporting Data	
What is the data you will use to support the	
need for the program (i.e. demographic	
data; barriers to access; cultural factors;	
evidence from studies)?	
The Rig	ht Grant
Identifying the Right Grant	
Answer the following questions:	
How does the grant align with consideration	
to your institutional mission and goals?	
Are resources available for implementing	
the program?	
Does your institution have the capacity to	
administer funds?	
Do you have access to the target	
population?	



Do you have community support for the	
program?	
Is the amount of the award worth the	
expense and time commitments involved in	
applying for the award?	
Do you have enough time to meet the	
submission deadline?	
Program Officers	
Who are the program officers? What is their	
contact information? Keep this information	
on record. At the end of this series, you will	
have a summary you can potentially share	
with program officers.	
Modul	e/Day 3
The Executi	ve Summary
Opening	Paragraph
Significance of the Work	
What is the broad context of your work?	
Write 1-2 sentences about this.	
Specifics of the Project	
What specific area of this broader context	
will your project address? Why is your	
specific project important to the bigger	
picture?	
Write 1-2 sentences about this.	
Knowledge Gap	
What is the complication/gap in	
knowledge/problem your proposal will	
address?	
Write 1-2 sentences about this.	
My Expertise/Assets	
What expertise, experience, and knowledge	
do you possess that are applicable to this	
project? What populations do you have	
access to for performing the work?	
Write 1-2 sentences about this.	
Goals and	Objectives
	are outlined in the RFA. Incorporate language
from the RFA to the Objectives Sec	tion. Use the references in the RFA.



Make a Case for Your Proposal	
How will this work move your field forward?	
Write 1-2 sentences about this.	
Goals	
How will your project make the world a	
better place?	
Write 1-2 sentences about this.	
Process Objective/Activity for Project	
What will you do in your proposed	
program? How will you do this?	
Write 1-2 sentences about this.	
Outcome Objective for Project	
What changes do you anticipate seeing	
through your work? What results do you	
expect to see as a result of your work? What	
metrics will you use to do this?	
Write 1-2 sentences about this.	
Problem :	Statement
Problem Statement	
What is the hypothesis or what are the	
research questions that you will investigate?	
Resear	ch Path
Background	
What is the foundation for this work?	
Write 1-2 sentences about this.	
Next Logical Step	
Describe why your project is the next logical	
step for research in your field.	
Write 1-2 sentences about this.	
The	Геат
Team Qualifications	
Who will join you in doing this work? What	
qualifies you and your team to do this work?	
Write a few sentences about this.	
Modul	e/Day 4
Bud	dget
Budget Restrictions	
Are there any budget restrictions in the	
RFA?	



Cost-share	
Is there a cost-share requirement in the	
RFA?	
Salary and Fringe	
Do you have team identified?	
Will you have co-PIs and key personnel?	
Full-time or part-time employees? Student	
employees?	
List your positions, salary base for each	
position, and fringe benefits figures (from	
your institutional grants office) for the	
team's time commitment to the grant.	
Indirect costs (IDC)	
What is the IDC rate at your institution? This	
information can be accessed from your	
institutional grants office.	
Sub-awards and Partnerships	
Do you plan to have partners that need	
funding to complete their commitment? List	
them here.	
Travel	
Will you need to travel for implementation	
of the project? Will you or your team attend	
conferences or present at conferences?	
Equipment	
List the equipment you can identify today	
for implementing your project.	
Supplies	
List any supplies you can identify today for	
implementing your project.	
Contract	
Will you need funding for contracts? Include	
any funding needed for partners that will be	
involved in implementing a portion of this	
project. If you will hire an external grants	
office for IRB or grant management support,	
include those here. (If your institution does	
not have a grants office, you may want to	
do this). Remember to include an external	



evaluator. List potential partners for your	
project.	
Other	
Any other costs can be included here (i.e.	
publication costs, subject payments,	
communciations)	
Participant Costs	
Will students do field studies that require	
travel? Will students attend conferences or	
present at conferences? Will you cover	
student tuition or stipends? Will you need	
to cover housing/boarding costs for	
students to attend a summer camp?	
Modul	e/Day 5
Prepare to W	rite the Grant
Leadership	
Who is leading the writing team?	
Will you be leading this team or will	
someone else?	
The Team	
Who is on the writing team?	
Start with your dream team for this	
exercise?	
Feedback	
Who can read through your proposal for	
feedback?	
Engage subject matter experts and non-	
experts as readers and editors. Reviewers	
may or may not be subject matter experts	
depending on what/where you are	
submitting.	
List prospective readers and editors. Identify	
the roles you will ask them to engage.	
Gaps on the Team	
Identify any gaps that may exist in expertise	
of the team that you have in mind and the	
implementation requirements for the	
success of the project?	
External Partnerships	



Have you identified individuals from external organizations/institutions that can help fill the gaps?	
Internal Partnerships Are there individuals at your institution that can be partners for your project? These individuals would not necessarily work on the research yet may be able to provide valuable information or access to information that you may not have otherwise.	
Usefu	l Data
Find your institutional strategic plan.	
Describe how your project aligns with this strategic plan. This will help establish that your project will have institutional support.	