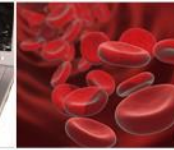




WHERE DISCOVERIES BEGIN



CAREER Proposals: Common Mistakes and Practices

**Division of Chemical, Bioengineering,
Environmental, and Transport Systems (CBET)
Directorate for Engineering**

Presented by: Raj Mutharasan
Program Director, Nano-BioSensing



Finding the Appropriate Program

- **Check list of currently funded programs**
 - Use FastLane (www.fastlane.nsf.gov)
 - Read titles and abstracts on the website
 - READ Program Descriptions, *they do change*
- **Find a fit**
 - Contact program director
 - Prepare a one-page abstract
 - Specify appropriate program on cover sheet in addition to CAREER

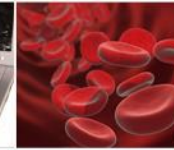


Common Mistakes in Preparing a CAREER Proposal

- Ignoring rules (e.g., Updated Grant Proposal Guide, January 2016)
http://nsf.gov/publications/pub_summ.jsp?ods_key=gpg
 - Always read the solicitation
- **Deadline:** 5:00pm submitter's local time
- Rushing and waiting until the last minute - poor proofreading, no internal review



WHERE DISCOVERIES BEGIN

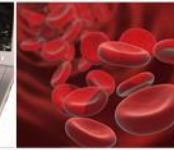


Common Mistakes in Preparing a CAREER Proposal

- **Failing to project that the proposed work will be the basis for a long-term, successful faculty career**
- **Overlooking that education, mentoring, teaching, outreach are part of a successful academic career**
- **Failing to integrate education/outreach activities in a meaningful and sensible way to research activities**



WHERE DISCOVERIES BEGIN



Common Mistakes in Preparing a CAREER Proposal

- **Failing to include any assessment of educational activities.**
- **Failing to get out of the PhD and Postdoc advisors' scientific shadows.**
- **Treating the CAREER proposal as a regular unsolicited proposal, rather than a proposal that envisions the start of an independent long-term academic research trajectory.**

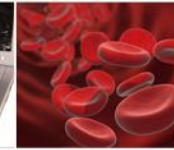


Common Mistakes in Preparing a CAREER Proposal

- **Making the proposed work (research and education) too broad or too narrow**
- **Proposing an impossibly large amount of work rather than an amount of work that will be appropriate and well-received**
- **Repeating words without substantiating them (e.g., “innovative”, “novel”, “fundamental”, “transformative”, “first time ever”, etc.)**



WHERE DISCOVERIES BEGIN

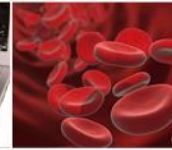


Common Mistakes in Preparing a CAREER Proposal

- **Failing to express a compelling scientific question and a clear, reasonable research plan to answer this question**
- **The proposed research is incremental (e.g., proposal reads like a parametric study or a development activity)**
- **The educational plan is ordinary (e.g., teach a class, educate students)**



WHERE DISCOVERIES BEGIN

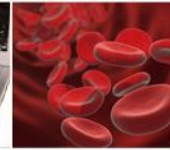


Help Yourself

- **Seek support from your department and university.**
- **Understand literature gaps in research and education.**
- **Do not be unrealistically ambitious.**



WHERE DISCOVERIES BEGIN

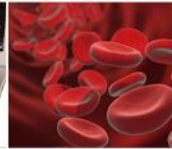


A Reminder...

- **DO NOT INCLUDE APPENDICES -**
Without prior written approval from the appropriate NSF Assistant Director, proposals with appendices will be Returned without Review (RWR). Note that such approvals are rarely granted (see Chapter II.A of the GPG).
- **Single page collaboration letters.**



WHERE DISCOVERIES BEGIN



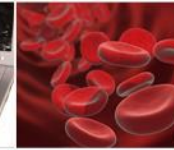
CAREER Proposal Preparation and Submission Checklist

<http://www.nsf.gov/pubs/2015/nsf15555/nsf15555.pdf>

**ENG Full Proposal Deadline Date: July 21, 2016
5:00pm submitter's local time**



WHERE DISCOVERIES BEGIN



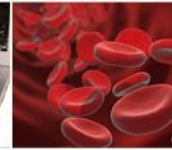
Results from Prior Support

I received an NSF award two years ago on a topic completely unrelated to my current CAREER proposal.

Question: Do I need to include the results in the *Results from Prior Support* Section of the proposal?



WHERE DISCOVERIES BEGIN



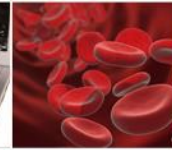
Answer

Yes! The Grants and Proposal Guide (GPG) states:

If any PI or co-PI identified on the project has received NSF funding (including any current funding) in the past five years, information on the award(s) is required, irrespective of whether the support was directly related to the proposal or not.



WHERE DISCOVERIES BEGIN



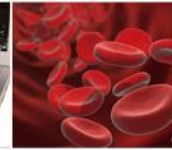
Results from Prior Support

I received an NSF award three years ago and it is no longer active.

Question: Do I need to include the results in the *Results from Prior Support* Section of the proposal?



WHERE DISCOVERIES BEGIN



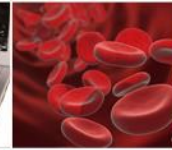
Answer

Yes! The Grants and Proposal Guide (GPG) states:

If any PI or co-PI identified on the project has received NSF funding (including any current funding) in the past five years, information on the award(s) is required, irrespective of whether the support was directly related to the proposal or not.



WHERE DISCOVERIES BEGIN



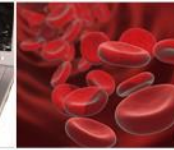
Results from Prior Support

I was PI or co-PI on two (or more) NSF awards over the last four years.

Question: Do I need to include the results from each and every award in the *Results from Prior Support Section* of my CAREER proposal?



WHERE DISCOVERIES BEGIN



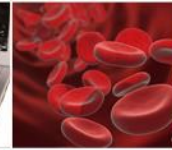
Answer

You should report the results from the award most closely related to this proposal. The Grants and Proposal Guide (GPG) states:

In cases where the PI or co-PI has received *more than one award* (excluding amendments), they need only *report on the one award most closely related* to the proposal. Funding includes not just salary support, but any funding awarded by NSF.



WHERE DISCOVERIES BEGIN



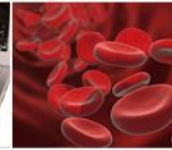
Results from Prior Support

I was co-PI on an NSF award two years ago but did not receive salary support.

Question: Do I need to include the results in the *Results from Prior Support* Section of the proposal?



WHERE DISCOVERIES BEGIN



Answer

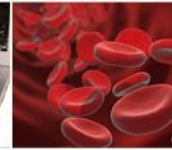
Yes! The Grants and Proposal Guide (GPG) states:

If any PI or co-PI identified on the project has received NSF funding (including any current funding) in the past five years, information on the award(s) is required...

Funding includes not just salary support, but any funding awarded by NSF!



WHERE DISCOVERIES BEGIN



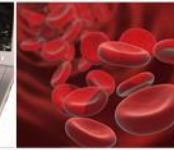
Results from Prior Support

What **MUST** I include in this section?

- NSF award number
- Award amount
- Period of support
- Award title
- Summary of the results
- Publications resulting from the NSF award
- Evidence of research products



WHERE DISCOVERIES BEGIN



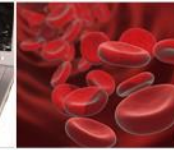
Results from Prior Support

The following information MUST be provided:

- the NSF award number, the title of the project, amount and period of support;
- a summary of the results, including accomplishments;
- **The results must be separately described under two distinct headings, *Intellectual Merit* and *Broader Impacts*;**
- the publications resulting from the NSF award;
- evidence of research products and their availability, including, but not limited to: data, publications, samples, physical collections, software, and models, as described in any Data Management Plan; and
- if the proposal is for renewed support, a description of the relation of the completed work to the proposed work



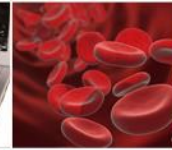
WHERE DISCOVERIES BEGIN



Results from Prior Support

What's the maximum number of pages that I can use to describe the *Results from Prior Support*?

- 1 page
- 2 pages
- 5 pages
- 7 pages
- No maximum



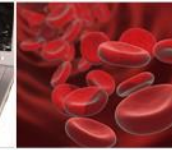
Answer

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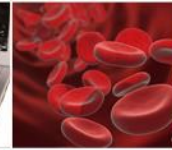
Results from Prior Support

What section of the proposal contains the
“Results from Prior Support” Section?

- Project Summary
- Project Description
- Supplementary Documents
- Data Management Plan
- Budget



WHERE DISCOVERIES BEGIN



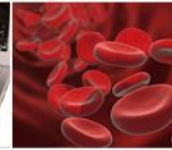
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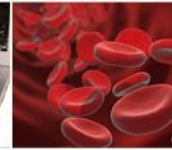
Results from Prior Support

I'm running out of space in my *Project Description*. My previous NSF award is still active.

Question: Can I provide this information in the Current and Pending Support Section of the proposal?



WHERE DISCOVERIES BEGIN



Answer

No! You should list the award in the Current and Pending Support Section of the proposal; however, the additional details **MUST** be provided in the *Results from Prior Support* Section of the Project Description.

Failure to provide this information will result in your proposal being returned without review.