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# Research Performance Progress Report (RPPR) Screenshots and Instructions

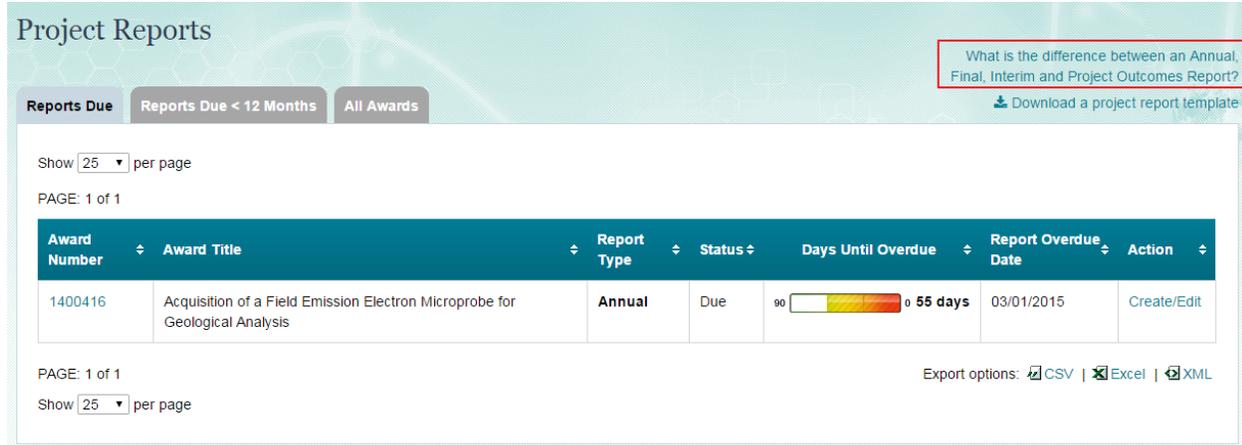
*January 13, 2015*

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# 1. Wireframes and Copy Deck

## 1.1. A.1 - PI User - Home Concept



Copy ID	CMS?	Copy
CW A.1-2	N	<p>What is the difference between an Annual, Final, Interim and Project Outcomes Report?</p> <p><b>Annual Project Report</b> Annual Project Reports (APRs) are required for Continuing Grant, Cooperative Agreement and Standard award types. Unless otherwise specified in the grant, annual project reports shall be submitted at least three months prior to the end of the current reporting period. In the case of continuing grants, failure to submit timely reports may delay processing of funding increments. All Annual Project Reports for each reporting period must be completed prior to submission of a Final Project Report.</p> <p><b>Final Project Report</b> Final Project Reports (FPRs) are required for all Standard, Continuing Grant, Cooperative Agreement and Individual Fellowship (Individual Institutions only and when applicable or cited in solicitations). NSF awards require that the PI submit a Final Project Report to the cognizant NSF Program Officer within 90 days after the expiration of the award.</p> <p><b>Project Outcomes Reports</b> Project Outcomes Reports (PORs) are applicable to Continuing Grant, Cooperative Agreement and Standard award types. This report serves as a brief summary of the nature and outcomes of the project, prepared specifically for the public. Unless otherwise specified in the grant, project outcomes reports must be submitted electronically via Research.gov within 90 days of the expiration date of the grant.</p>



		<p><b>Interim Project Report</b> Interim Project Reports (IPRs) are not required and are used to update the progress of a project any time during or before the award period expires. An Interim Report can be submitted at anytime and does not count as an Annual or Final Project Report.</p> <p>For more information on the Project Reports System requirements, please refer to Chapter II.E of the AAG.</p>
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## 1.2. B.2 - PI - Report Entry : Cover

### Report Content

**Cover** | Accomplishments | Products | Participants/Organizations | Impact | Changes/Problems

[Next Section >](#)

**Cover**

Federal Agency and Organization Element to Which Report is Submitted: **4900**

Federal Grant or Other Identifying Number Assigned by Agency: **1000088**

Project Title: **Collaborative Research: Multi-Accuracy Bayesian Models for Improving Property Prediction of Nanotube Buckypaper Composites**

PD/PI Name: **Yu Ding, Principal Investigator**

Recipient Organization: **Texas Engineering Experiment Station**

Project/Grant Period: **08/15/2010 - 07/31/2015**

Reporting Period: **08/01/2014 - 07/31/2015**

Submitting Official (if other than PD/PI): **N/A**

Submission Date: **N/A**

Signature of Submitting Official (signature shall be submitted in accordance with agency specific instructions): **N/A**

[Next Section >](#)

### 1.3. B.3 - PI - Report Entry : Accomplishments

#### Report Content

Cover **Accomplishments** Products Participants/Organizations Impact Changes/Problems

< Save / Previous Section

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Save / Next Section >

Accomplishments - What was done? What was learned? ⓘ

CW B.3-1

If there is nothing significant to report during this reporting period, please check "Nothing to Report" if applicable.

\* Required fields

\* What are the major goals of the project? ⓘ

CW B.3-3

Rich text editor toolbar with icons for Bold, Italic, Underline, Bulleted List, Numbered List, Link, Unlink, Text Color, Background Color, Undo, and Redo.

Characters Remaining: 8000

\* What was accomplished under these goals (you must provide information for at least one of the 4 categories below)? ⓘ

CW B.3-4

Major Activities:

Rich text editor toolbar with icons for Bold, Italic, Underline, Bulleted List, Numbered List, Link, Unlink, Text Color, Background Color, Undo, and Redo.

Characters Remaining: 8000

Specific Objectives:

Rich text editor toolbar with icons for Bold, Italic, Underline, Bulleted List, Numbered List, Link, Unlink, Text Color, Background Color, Undo, and Redo.

Characters Remaining: 8000

Significant results:

Rich text editor toolbar with icons for Bold, Italic, Underline, Bulleted List, Numbered List, Link, Unlink, Text Color, Background Color, Undo, and Redo.

Characters Remaining: 8000

Key outcomes or Other achievements:

Rich text editor toolbar with icons for Bold, Italic, Underline, Bulleted List, Numbered List, Link, Unlink, Text Color, Background Color, Undo, and Redo.

Characters Remaining: 8000

\*What opportunities for training and professional development has the project provided?

 **NSF Specific**  
 Nothing to report

CW B.3-5

CW B.3-5a

**B** *I* U |  |  |  |  |  |  |  |  | 

Characters Remaining: 8000

\*How have the results been disseminated to communities of interest?

  Nothing to report

**B** *I* U |  |  |  |  |  |  |  |  | 

Characters Remaining: 8000

CW B.3-7

\*What do you plan to do during the next reporting period to accomplish the goals?

  Nothing to report

**B** *I* U |  |  |  |  |  |  |  |  | 

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**Supporting Files**

You may upload pdf files with images, tables, charts, or other graphics in support of this section. You may upload up to 4 pdf files with a maximum file size of 5 MB each.

Please select a file.

Description (required if uploading a file). Please provide a description of the content contained in the attached file.

[Back to the top](#)

Copy ID	CMS?	Copy
CW B.3-1		The information provided in this section allows the agency to assess whether satisfactory progress has been made during the reporting period
CW B.3-3	N	Generally, the goals will not change from one reporting period to the next. However, if the awarding agency approved changes to the goals during the reporting period, list the revised goals and objectives. Also explain any significant changes in approach or methods from the agency approved application or plan.

CW B.3-4	N	As the project progresses, the emphasis in reporting in this section should shift from reporting activities to reporting accomplishments.
CW B.3-5a		For NSF purposes, please summarize the contributions to the research and teaching skills and experience of those who have worked on the project, including undergraduate students, graduate students, post-docs, college faculty, and K-12 teachers. If your project supported postdoctoral researchers, then you must include a summary of the mentoring activities conducted.
CW B.3-5	N	Training activities may include, for example, courses or one-on-one work with a mentor. "Professional development" activities result in increased knowledge or skill in one's area of expertise and may include workshops, conferences, seminars, study groups, and individual study. Include participation in conferences, workshops, and seminars not listed under major activities.
CW B.3-7	N	Describe briefly what you plan to do during the next reporting period to accomplish the goals and objectives.

## 1.4. B.4 - PI - Report Entry : Products

Cover Accomplishments Products Participants/Organizations Impact Changes/Problems

< Save / Previous Section

CW B.4-1
Save

Save / Next Section >

Products - What has the project produced? i NSF Specific

Use the filter below to view products you have entered for the current report.

**View Products by:** i CW B.4-1

Product Type All Filter

Show 10 per page

PAGE: 1 of 1 \* Required  
\*\* Required if Product Status is Published

Summary for current report:

Publications: **1**      Websites: **0**

Technology and Techniques: **0**    Other Products: **0**

Inventions, Patents, Licenses: **0**

Product Type	Citation / Description	Product Status	** Year	Status	Actions
Book	Author (1999). <i>Title</i> . Published. No. No.	<span style="border: 1px solid #ccc; padding: 2px 5px;">Published</span>	<span style="border: 1px solid #ccc; padding: 2px 5px;">1999</span>	<span style="color: green;">✔</span> Complete	<a href="#">Edit details</a>   <a href="#">Delete</a>

PAGE: 1 of 1

Show 10 per page

**Supporting Files**

You may also upload PDF files with images, tables, charts, or other graphics in support of this section. You may also upload up to 4 PDF files with a maximum file size of 5 MB each.

Browse for PDF Please select a file.

Description (required if uploading a file). Please provide a description of the content contained in the attached file.

Upload File

Copy ID	CMS?	Copy
CW B.4-1		<p>Publications are the characteristic product of research. Agencies evaluate what the publications demonstrate about the excellence and significance of the research and the efficacy with which the results are being communicated to colleagues, potential users, and the public, not the number of publications.</p> <p>Many projects (though not all) develop significant products other than publications. Agencies assess and report both publications and other products to Congress, communities of interest, and the public.</p>
CW B.4-3		<p>Agencies are interested in only those publications that most reflect the work under this award in the following categories:</p> <ul style="list-style-type: none"> <li> <p><b>Journal publications.</b> List peer-reviewed articles or papers appearing in scientific, technical, or professional journals. Include any peer-reviewed publication in the periodically published proceedings of a scientific society, a conference, or the like. A publication in the proceedings of a one-time conference, not part of a series, should be reported under “Books or other non-periodical, one-time publications.”</p> <p>Identify for each publication: Author(s); title; journal; volume: year; page numbers; status of publication (published; accepted, awaiting publication; submitted, under review; other); acknowledgement of federal support (yes/no).</p> </li> <li> <p><b>Books or other non-periodical, one-time publications.</b> Report any book, monograph, dissertation, abstract, or the like published as or in a separate publication, rather than a periodical or series. Include any significant publication in the proceedings of a one-time conference or in the report of a one-time study, commission, or the like. I</p> <p>Identify for each one-time publication: author(s); title; editor; title of collection, if applicable; bibliographic information; year; type of publication (book, thesis or dissertation, other); status of publication (published; accepted, awaiting publication; submitted, under review; other); acknowledgement of federal support (yes/no).</p> </li> </ul> <p><b>Other publications, conference papers and presentations.</b> Identify any other publications, conference papers and/or presentations not reported above. Specify the status of the publication as noted above.</p>

## 1.5. B.4.3 - PI - Report Entry : Products – Publications - Journal

Select Product Type:   NSF Specific

Journal

\* Required fields

\* Author(s)

\* Title

\* Journal

Volume

Issue

Year

First Page Number or eLocation ID

Publication Identifier

Publication Identifier Type

\* Status of Publication

\* Acknowledgement of Federal Support

Yes  No

Peer Reviewed

Yes  No



## 1.7. B.4.5 - PI - Report Entry : Products - Technologies or Techniques

### Enter Products

Select the type of product you want to add to view the form where you can manually enter your product. Additionally, you can search for and add journals.

Select Product Type:   NSF Specific

Technologies and Techniques

\* Required fields

\* Description

**B** *I* U |   |   |    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 



## 1.8. B.4.6 - PI - Report Entry : Products – Patents

### Enter Products

Select the type of product you want to add to view the form where you can manually enter your product. Additionally, you can search for and add journals.

Select Product Type:   NSF Specific

Patent

\* Required fields

\* Patent Abstract

\* Patent Title

Patent Number

\* Country

Select One

\* Application Date

\* Patent Status

Select One

Date Issued



## 1.9. B.4.6.1 - PI - Report Entry : Products – Invention

### Enter Products

Select the type of product you want to add to view the form where you can manually enter your product. Additionally, you can search for and add journals.

Select Product Type:   NSF Specific

Invention

\* Required fields

\* Invention Title

\* Invention Description

\* Inventor(s)



## 1.10. B.4.6.2 - PI - Report Entry : Products – Licenses

### Enter Products

Select the type of product you want to add to view the form where you can manually enter your product. Additionally, you can search for and add journals.

Select Product Type:   NSF Specific

License

\* Required fields

\* License Title

\* License Status

Select One

\* Application Date

Date Issued

\* License Assignees



## 1.11. B.4.7 - PI - Report Entry : Products - Websites

### Enter Products

Select the type of product you want to add to view the form where you can manually enter your product. Additionally, you can search for and add journals.

Select Product Type:   NSF Specific

Website

\* Required fields

Title

\* URL

Short Description of the Website

**B** *I* U |   |   |   |   |   |                                                        

## 1.12. B.4.8 - PI - Report Entry : Products - Other Products

### Enter Products

Select the type of product you want to add to view the form where you can manually enter your product. Additionally, you can search for and add journals.

Select Product Type:    

Other Product

\* Required fields

\* Product Type

\* Other Product Type

\* Describe the product and how it is being shared

**B** *I* U |   |   |    |                                                      

Characters Remaining: 8000

Copy ID	CMS?	Copy
CW B.4.8 - 2	N	<p>Examples of other products are:</p> <ul style="list-style-type: none"> <li>• Databases;</li> <li>• Physical Collections;</li> <li>• Software or NetWare;</li> <li>• Models;</li> <li>• Educational aids or curricula;</li> <li>• Instruments or equipment;</li> <li>• Data &amp; Research Materials (e.g., cell lines, DNA probes, animal models);</li> <li>• Evaluation Instruments;</li> <li>• Survey Instruments; and</li> <li>• Other;</li> </ul>

### 1.13. B.5 - PI - Report Entry : Participants

Cover
Accomplishments
Products
Participants/  
Organizations
Impact
Changes/  
Problems

< Save / Previous Section
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CW B.5-1
Save / Next Section >

Participants & Other Collaborating Organizations - Who has been involved? i

For NSF purposes, for separately submitted and awarded collaborative proposals, the PI should report progress on his/her institution's portion of the collaborative effort only.

In each of the subsections below, note which collaborators or contacts are involved in data contribution and/or management.

\* Required fields

**\* What individuals have worked on the project?**

Show  per page

PAGE: 1 of 1 Add/Edit multiple participants Add new participant

Name	Most Senior Project Role	Nearest Person Month Worked	Status	Previous Participant	Actions
Armstrong, John	PD/PI		<span style="color: red;">!</span> Missing information	--	<a href="#">Edit details</a>
Alexander, Conel	Co PD/PI		<span style="color: red;">!</span> Missing information	--	<a href="#">Edit details</a>
Fei, Yingwei	Co PD/PI		<span style="color: red;">!</span> Missing information	--	<a href="#">Edit details</a>
Shahar, Anat	Co PD/PI		<span style="color: red;">!</span> Missing information	--	<a href="#">Edit details</a>
Shirey, Steven	Co PD/PI		<span style="color: red;">!</span> Missing information	--	<a href="#">Edit details</a>

PAGE: 1 of 1

Show  per page

**\* What other organizations have been involved as partners?**  Nothing to report

Add new organization

Name	Type of Partner Organization	Location	Previous Organization	View Details	Actions
Academic	Academic Institution	Location	--	<a href="#">View details</a>	<a href="#">Edit details</a>   <a href="#">Delete</a>

**\* Have other collaborators or contacts been involved?** i

Yes  No

Copy ID	CMS?	Copy
CW B.5 – 1	N	<ul style="list-style-type: none"> <li>For example, has there been any:</li> <li>collaborations with others within the recipient's organization; especially interdepartmental or interdisciplinary collaborations;</li> <li>collaborations or contact with others outside the organization; and</li> <li>collaborations or contacts with others outside the United States or with an international organization.</li> </ul> <p>It is likely that many recipients will have no other collaborators or contacts to report.</p>

## 1.14. B.5.1 - PI - Report Entry : Participants > Name

### Add New Participant

[< Back to Participants](#)

**\* Required fields**

\* First Name:

Middle Name:

\* Last Name:

\* E-mail Address:

\* Most Senior Project Role:

\* Nearest Person Month Worked:  *A person month equals approximately 160 hours of effort, regardless of funding source.*

\* Contribution to the Project:

\* Funding Support:  

\* Identify whether this person is collaborating internationally on this project:  Yes  No

Country(ies) of foreign collaborator:  *Required if yes*

AFGHANISTAN  
ALAND ISLANDS  
ALBANIA  
ALGERIA

\* Traveled to foreign country for this award:  Yes  No

**CW B.5.1-1** (points to info icon)

**CW B.5.1-2** (points to info icon)



Copy ID	CMS?	Copy										
CW B.5.1-1		<ul style="list-style-type: none"><li>• <u>Provide the name and identify the role the person played in the project.</u> Indicate the nearest whole person month (Calendar, Academic, Summer) that the individual worked on the project. Show the most senior role in which the person has worked on the project for any significant length of time. For example, if an undergraduate student graduates, enters graduate school, and continues to work on the project, show that person as a graduate student, preferably explaining the change in involvement.</li></ul> <p><u>Describe how this person contributed to the project and with what funding support.</u> If information is unchanged from a previous submission, provide the name only and indicate “no change”.</p> <p><u>Identify whether this person is collaborating internationally.</u> Specifically is the person collaborating with an individual located in a foreign country and whether the person had traveled to the foreign country as part of that collaboration and duration of stay. The foreign country(ies) should be identified.</p> <p>For NSF purposes, this should read: Identify whether this person is collaborating internationally on this project.</p> <p><u>Example:</u></p> <table><tr><td>Name:</td><td>Mary Smith</td></tr><tr><td>Project Role:</td><td>Graduate Student</td></tr><tr><td>Nearest person month worked:</td><td>5</td></tr></table> <p>Contribution to Project:</p> <p>Ms. Smith has performed work in the area of combined error-control and constrained coding.</p> <p>Funding Support:</p> <p>The Ford Foundation (Complete only if the funding support is provided from other than this award.)</p> <p>Collaborated with individual in foreign country:</p> <p>Country(ies) of foreign collaborator:</p> <p>Travelled to foreign country:</p> <p>If traveled to foreign country(ies), duration of stay:</p> <table><tr><td>Yes</td></tr><tr><td>China</td></tr><tr><td>Yes</td></tr><tr><td>5 months</td></tr></table>	Name:	Mary Smith	Project Role:	Graduate Student	Nearest person month worked:	5	Yes	China	Yes	5 months
Name:	Mary Smith											
Project Role:	Graduate Student											
Nearest person month worked:	5											
Yes												
China												
Yes												
5 months												
CW B.5.1-2		A list of any other funding support, other than this award, that supported the participant's participation in the project.										

### 1.1. B.5.2 - PI - Report Entry : Participants > Organization

## Add New Organization CW B.5.2-1

[< Back to Participants](#)

**\* Required fields**

\* Type of Partner Organization:

\* Name:

\* Location:  *(if foreign location list country)*

\* Partner's contribution to the project (identify one or more)

Financial support       In-kind support (e.g., partner makes software, computers, equipment, etc., available to project staff)

Facilities (e.g., project staff use the partner's facilities for project activities)       Collaborative research (e.g., partner's staff work with project staff on the project)

Personnel exchanges (e.g., project staff and/or partner's staff use each other's facilities, work at each other's site)       Other

More detail on partner and contribution (foreign or domestic):

Copy ID	CMS?	Copy
CW B.5.2-1		<p>Partner organizations may provide financial or in-kind support, supply facilities or equipment, collaborate in the research, exchange personnel, or otherwise contribute.</p> <p>Provide the following information for each partnership: <u>Organization Name:</u></p> <p><u>Location of Organization: (if foreign location list country)</u></p> <p><u>Partner's contribution to the project (identify one or more)</u></p> <ul style="list-style-type: none"> <li>Financial support;</li> <li>In-kind support (e.g., partner makes software, computers, equipment, etc., available to project staff);</li> <li>Facilities (e.g., project staff use the partner's facilities for project activities); Collaborative research (e.g., partner's staff work with project staff on the project); and</li> <li>• Personnel exchanges (e.g., project staff and/or partner's staff use each other's facilities, work at each other's site).</li> <li>• Other.</li> </ul> <p><u>More detail on partner and contribution (foreign or domestic)</u></p>



## 1.15. B.6 - PI - Report Entry – Impact

### Report Content

Cover Accomplishments Products Participants/Organizations **Impact** Changes/Problems

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CW B.6-1

Impact - What is the impact of the project? How has it contributed? ⓘ

**INSTRUCTIONS** - This component will be used to describe ways in which the work, findings, and specific products of the project have had an impact during this reporting period. ⓘ

For NSF purposes, include, where appropriate, discussion of data resources and the acquisition of data skills. Include the emergence of new career paths, such as data scientists, or new disciplines.

If there is nothing significant to report during this reporting period, please check "Nothing to Report" if applicable.

Please make sure to read all instructions including NSF specific instructions, which can be found in the following link:

ⓘ NSF Specific

\* Required fields

CW B.6-3

\* What is the impact on the development of the principal discipline(s) of the project? ⓘ

Describe how findings, results, techniques that were developed or extended, or other products from the project made an impact or are likely to make an impact on the base of knowledge, theory, and research and/or pedagogical methods in the principal disciplinary field(s) of the project.

Nothing to report

**B** *I* U | | | | | | | |

Characters Remaining: 8000



**\* What is the impact on other disciplines?**

Describe how the findings, results, or techniques that were developed or improved, or other products from the project made an impact or are likely to make an impact on other disciplines.

Nothing to report

Rich text editor toolbar with icons for Bold, Italic, Underline, Bulleted List, Numbered List, Link, Unlink, Undo, Redo, and a dropdown menu.

Characters Remaining: 8000

**\* What is the impact on the development of human resources?**

NSF Specific

CW B.6-5

Describe how the project made an impact or is likely to make an impact on human resource development in science, engineering, and technology.

Nothing to report

Rich text editor toolbar with icons for Bold, Italic, Underline, Bulleted List, Numbered List, Link, Unlink, Undo, Redo, and a dropdown menu.

Characters Remaining: 8000

**\* What is the impact on physical resources that form infrastructure?**

CW B.6-7

Describe ways, if any, in which the project made an impact, or is likely to make an impact, on physical resources that form infrastructure, including physical resources such as facilities, laboratories, or instruments.

Nothing to report

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Characters Remaining: 8000

**\* What is the impact on institutional resources that form infrastructure?**

NSF Specific

CW B.6-8

Describe ways, if any, in which the project made an impact, or is likely to make an impact, on institutional resources that form infrastructure.

Nothing to report

Rich text editor toolbar with icons for Bold, Italic, Underline, Bulleted List, Numbered List, Link, Unlink, Undo, Redo, and a dropdown menu.

Characters Remaining: 8000



**\* What is the impact on physical resources that form infrastructure?**

Describe ways, if any, in which the project made an impact, or is likely to make an impact, on physical resources that form infrastructure, including physical resources such as facilities, laboratories, or instruments.

Nothing to report

**B I U** | | | | | | | |

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Characters Remaining: 8000

**\* What is the impact on institutional resources that form infrastructure?** i NSF Specific

Describe ways, if any, in which the project made an impact, or is likely to make an impact, on institutional resources that form infrastructure.

Nothing to report

**B I U** | | | | | | | |

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Characters Remaining: 8000

**\* What is the impact on information resources that form infrastructure?** i NSF Specific

Describe ways, if any, in which the project made an impact, or is likely to make an impact, on information resources that form infrastructure.

Nothing to report

**B I U** | | | | | | | |

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Characters Remaining: 8000

**\* What is the impact on technology transfer?** i ←

CW B.6-9

Describe ways in which the project made an impact, or is likely to make an impact, on commercial technology or public use.

Nothing to report

**B I U** | | | | | | | |

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Characters Remaining: 8000



\* What is the impact on society beyond science and technology? ⓘ

CW B.6-10

Describe how results from the project made an impact, or are likely to make an impact, beyond the bounds of science, engineering, and the academic world.

Nothing to report

Rich text editor toolbar with icons for Bold, Italic, Underline, Bulleted List, Numbered List, Link, Unlink, Undo, Redo, and a dropdown menu.

Characters Remaining: 8000

[Back to the top](#)

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CW B.6-1		<p>Over the years, this base of knowledge, techniques, people, and infrastructure is drawn upon again and again for application to commercial technology and the economy, to health and safety, to cost-efficient environmental protection, to the solution of social problems, to numerous other aspects of the public welfare, and to other fields of endeavor.</p> <p>The taxpaying public and its representatives deserve a periodic assessment to show them how the investments they make benefit the nation. Through this reporting format, and especially this section, recipients provide that assessment and make the case for Federal funding of research and education.</p> <p>Agencies use this information to assess how their research programs:</p> <ul style="list-style-type: none"> <li>• increase the body of knowledge and techniques;</li> <li>• enlarge the pool of people trained to develop that knowledge and techniques or put it to use; and</li> <li>• improve the physical, institutional, and information resources that enable those people to get their training and perform their functions.</li> </ul>
CW B.6-2		<p>Describe distinctive contributions, major accomplishments, innovations, successes, or any change in practice or behavior that has come about as a result of the project relative to:</p> <ul style="list-style-type: none"> <li>• the development of the principal discipline(s) of the project;</li> <li>• other disciplines;</li> <li>• the development of human resources;</li> <li>• physical, institutional, and information resources that form infrastructure;</li> <li>• technology transfer (include transfer of results to entities in government or industry, adoption of new practices, or instances where research has led to the initiation of a start-up company); or</li> <li>• society beyond science and technology.</li> </ul>

CW B.6-3	N	<p>Summarize using language that an intelligent lay audience can understand (Scientific American style).</p> <p>How the field or discipline is defined is not as important as covering the impact the work has had on knowledge and technique. Make the best distinction possible, for example, by using a “field” or “discipline”, if appropriate, that corresponds with a single academic department (i.e., physics rather than nuclear physics).</p> <p>For NSF purposes, the paragraph should read, How the fields or disciplines are defined is not as important as covering the impact the work has had on knowledge and technique</p>
CW B.6-5		<p>For example, how has the project:</p> <ul style="list-style-type: none"> <li>• provided opportunities for research and teaching in the relevant fields;</li> <li>• improved the performance, skills, or attitudes of members of underrepresented groups that will improve their access to or retention in research, teaching, or other related professions;</li> <li>• developed and disseminated new educational materials or provided scholarships; or</li> <li>• provided exposure to science and technology for practitioners, teachers, young people, or other members of the public?</li> </ul> <p>For NSF purposes, the first bullet above should read “provided opportunities for research, teaching and mentoring in science and engineering areas.</p>
CW B.6-7		<p>including:</p> <ul style="list-style-type: none"> <li>• institutional resources (such as establishment or sustenance of societies or organizations);</li> </ul> <p>For NSF purposes, the institutional resources parenthetical language should read: (such as policies, practices, programs, or establishment or sustenance of societies or organizations); and information resources should include data services and preservation.</p>
CW B.6-8		<p>including:</p> <ul style="list-style-type: none"> <li>• information resources, electronic means for accessing such resources or for scientific communication, or the like.</li> </ul> <p>For NSF purposes, the institutional resources parenthetical language should read: (such as policies, practices, programs, or establishment or sustenance of societies or organizations); and information resources should include data services and preservation.</p>
CW B.6-9	N	<p>Including:</p> <ul style="list-style-type: none"> <li>• transfer of results to entities in government or industry;</li> <li>• instances where the research has led to the initiation of a start-up company; or</li> <li>• adoption of new practices.</li> </ul>

CW B.6-10	N	<p>For example, in areas such as:</p> <ul style="list-style-type: none"> <li>• improving public knowledge, attitudes, skills, and abilities;</li> <li>• changing behavior, practices, decision making, policies (including regulatory policies), or social actions; or</li> <li>• improving social, economic, civic, or environmental conditions.</li> </ul>
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## 1.16. B.7 - PI - Report Entry – Changes

Cover Accomplishments Products Participants/Organizations Impact Changes/Problems

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Changes/ Problems

**INSTRUCTIONS -**

The PI is reminded that the grantee is required to obtain prior written approval from the awarding agency grants official whenever there are significant changes in the project or its direction. See agency specific instructions for submission of these requests.

If not previously reported in writing to the agency through other mechanisms, provide the following additional information or state, "Nothing to Report", if applicable:

\* Required fields

**Notifications and Request**

For more information on Grantee Notifications to and Requests for approval from the National Science Foundation, please visit the Notifications and Requests section in FastLane or refer to Exhibit II-1 of the Award and Administration Guide (AAG).

\* **Changes in approach and reasons for change**  Nothing to report CW B.7-5

**B I U** | **☰ ☷** | **x, x'** | **☰ ☷**

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Characters Remaining: 8000

\* **Actual or Anticipated problems or delays and actions or plans to resolve them**  Nothing to report CW B.7-6

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\* **Changes that have significant impact on expenditures**  Nothing to report CW B.7-7

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\* **Significant changes in use or care of human subjects**  Nothing to report CW B.7-8

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\* Significant changes in use or care of vertebrate animals  Nothing to report

CW B.7-9

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Characters Remaining: 8000

\* Significant changes in use or care of biohazards  Nothing to report

CW B.7-10

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CW B.7-5	N	Describe any changes in approach during the reporting period and reasons for these changes. Remember that significant changes in objectives and scope require prior approval of the agency.
CW B.7-6	N	Describe problems or delays encountered during the reporting period and actions or plans to resolve them.
CW B.7-7	N	Describe changes during the reporting period that may have a significant impact on expenditures, for example, delays in hiring staff or favorable developments that enable meeting objectives at less cost than anticipated.
CW B.7-8	N	Describe significant deviations, unexpected outcomes, or changes in approved protocols for the use or care of human subjects during the reporting period. If required, were these changes approved by the applicable institution committee and reported to the agency? Also specify the applicable Institutional Review Board/Institutional Animal Care and Use Committee approval dates.
CW B.7-9	N	Describe significant deviations, unexpected outcomes, or changes in approved protocols for the use or care of vertebrate animals during the reporting period. If required, were these changes approved by the applicable institution committee and reported to the agency? Also specify the applicable Institutional Review Board/Institutional Animal Care and Use Committee approval dates.
CW B.7-10	N	Describe significant deviations, unexpected outcomes, or changes in approved protocols for the use or care of biohazards during the reporting period. If required, were these changes approved by the applicable institution committee and reported to the agency? Also specify the applicable Institutional Review Board/Institutional Animal Care and Use Committee approval dates.

## 1.17. B.8 - PI - Report Entry - Special Requirements (Section not available for all project reports)

**Report Content**

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**Special Requirements**

\* Required fields

**Respond to any special reporting requirements specified in the award terms and conditions, as well as any award specific reporting requirements.**

Nothing to report

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**Supporting Files**

You may also upload PDF files in support of this section. Please note, the maximum size allowed for upload is 10MB.

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## 1.18. B.10.1 - PI - Report Entry : Submit 2 (Certification)

**Award 1400416 - Annual Project Report**

Your project report is ready for submission to NSF. If you want to submit now please certify by checking the check box below then selecting the "Submit Report" button.

I certify that to the best of my knowledge (1) the statements herein (excluding scientific hypotheses and scientific opinions) are true and complete, and (2) the text and graphics in this report as well as any accompanying publications or other documents, unless otherwise indicated, are the original work of the signatories or individuals working under their supervision. I understand that the willful provision of false information or concealing a material fact in this report or any other communication submitted to NSF is a criminal offense (U.S. Code, Title 18, Section 1001).

[Submit Report](#)
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## 1.19. B.10.2 - PI - Report Entry : Submit 3 (Confirmation)

**Award 1400416 - Annual Project Report**

Your report has been successfully submitted. Please contact your Program Officer if you have any questions.

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