Research Performance Progress Report (RPPR)
Screenshots and Instructions

October 25, 2012
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1. Wireframes and Copy Deck

1.1. A.1 - PI User - Home Concept

What is the difference between an Annual, Final, Interim and Project Outcomes Report?
Outcomes Report?

**Annual Project Report**
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.

**Final Project Report**
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.

**Project Outcomes Reports**
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.

**Interim Project Report**
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.

For more information on the Project Reports System requirements, please refer to Chapter II.E of the AAG.
1.2. B.2 - PI - Report Entry: Cover

![Screenshot of Research.gov]

**Award 1 - Annual Project Report**

**Report Content**

<table>
<thead>
<tr>
<th>Section</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cover</td>
<td>- Federal Agency and Organization Element to Which Reports Submitted: fao - Federal Grant or Other Identifying Number (Assigned by Agency): fgn - Project Title: project title - PDP Name: Jon Shadrer, 200000001 John Daniels, 998989892 Firstname, Lastname, 1, 200000001 Firstname, Lastname, 2, 200000002 Firstname, Lastname, 3, 200000003 Firstname, Lastname, 4, 200000004</td>
</tr>
<tr>
<td></td>
<td>- Request Organization: org name - Project Grant Period: 05/24/2010 - 05/29/2013 - Reporting Period: 05/25/2010 - 11/20/2012 - Submitting Official (Other than PDP): N/A - Submission Date: 05/17/2012 - Signature of Submitting Official (Signature shall be submitted in accordance with agency specific instructions): N/A</td>
</tr>
</tbody>
</table>

---

[Privacy Policy] | [FOIA] | [No FEAR Act] | [DOT] | [USA.gov] | [NSF.gov] |
---|---|---|---|---|---|
Led by The National Science Foundation, 4201 Wilson Boulevard, Arlington, Virginia 22230, USA
1.3.  B.3 - PI - Report Entry : Accomplishments

For NSF purposes, the PI should provide accomplishments in the context of the NSF merit review criteria of intellectual merit and broader impacts, and program-specific review criteria specified in the solicitation. Please include any transformative outcomes or unanticipated discoveries as part of the Accomplishment section.

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 duration. See agency-specific instructions for submission of these requests.

For purposes of NSF, please see Exhibit II-1 of the Award & Administration Guide for a complete listing of grantee instructions to and Requests For Approval from the National Science Foundation.

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

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?

List the major goals of the project as stated in the approved application or as approved by the agency. If the application lists milestone/target dates for important activities or phases of the project, identify these dates and show actual completion dates or the percentage of completion.

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

For this reporting period describe: 1) major activities; 2) specific objectives; 3) significant results, including major findings, developments, or conclusions (both positive and negative); and 4) key outcomes or other achievements. Include a discussion of stated goals not met.

**Major Activities**

These are some simulated Major Activities:**

**Specific Objectives**

These are some simulated Specific Objectives:**
Significant results:  These are some simulated Significant Results!

Key outcomes or Other achievements: These are some simulated Key Objectives!

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

Describe opportunities for training and professional development provided to anyone who worked on the project or anyone who was involved in the activities supported by the project. “Training” activities are those in which individuals with advanced professional skills and experience assist others in attaining greater proficiency.

If the research is not intended to provide training and professional development opportunities or there is nothing significant to report during this reporting period, please check “Nothing to report” if applicable.

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

Describe how the results have been disseminated to communities of interest. Include any outreach activities that have been undertaken to reach members of communities who are not usually aware of these research activities, for the purpose of enhancing public understanding and increasing interest in learning and careers in science, technology, and the humanities.

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

Supporting Files

<table>
<thead>
<tr>
<th>Filename</th>
<th>Description</th>
<th>Uploaded By</th>
<th>Uploaded On</th>
</tr>
</thead>
<tbody>
<tr>
<td>simulator_pdf_attachment.pdf</td>
<td>This is file description</td>
<td>Jimi Hendrix</td>
<td>05/29/2012 03:03 AM, EDT</td>
</tr>
</tbody>
</table>
The information provided in this section allows the agency to assess whether satisfactory progress has been made during the reporting period.

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.

As the project progresses, the emphasis in reporting in this section should shift from reporting activities to reporting accomplishments.

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.

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.

Describe briefly what you plan to do during the next reporting period to accomplish the goals and objectives.

<table>
<thead>
<tr>
<th>Copy ID</th>
<th>CMS?</th>
<th>Copy</th>
</tr>
</thead>
<tbody>
<tr>
<td>CW B.3-1</td>
<td></td>
<td>The information provided in this section allows the agency to assess whether satisfactory progress has been made during the reporting period</td>
</tr>
<tr>
<td>CW B.3-3</td>
<td>N</td>
<td>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.</td>
</tr>
<tr>
<td>CW B.3-4</td>
<td>N</td>
<td>As the project progresses, the emphasis in reporting in this section should shift from reporting activities to reporting accomplishments.</td>
</tr>
<tr>
<td>CW B.3-5a</td>
<td></td>
<td>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.</td>
</tr>
<tr>
<td>CW B.3-5</td>
<td>N</td>
<td>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.</td>
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<tr>
<td>CW B.3-7</td>
<td>N</td>
<td>Describe briefly what you plan to do during the next reporting period to accomplish the goals and objectives.</td>
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</table>
1.4. **B.4 - PI - Report Entry : Products**

For NSF purposes, the PI should include and discuss in the Product section the goals associated with data management and access and note any significant changes in them, as well as specific plans for dissemination of data, software, and other digital research products. When you report any of these items, please include any available identifiers and whether and how these products can be accessed or shared.

**INSTRUCTIONS** - List any products resulting from the project during the reporting period. If there is nothing to report under a particular item, please check ‘Nothing to Report’ if applicable.

**Your Output Summary for this Reporting Period:**

- **Publications (3 items)**
  - CW B.4-1
  - CW B.4-3

For NSF purposes, each category of publication should identify any associated data, software, other supplementary material and their appropriate identifiers. Other publications, conference papers and presentations should include other “non-reviewed” publications, conference papers, and presentations.

- Technologies or techniques (0 items)
- Inventions, patent applications, and/or licenses (0 items)
- Websites (0 items)
- Other products, such as data or databases, physical collections, audio or video products, software or hardware, movies, educational aids or curricula, instruments, or equipment (0 items)

You and your institution are responsible for assuring that any publication including World Wide Web pages developed under or based on NSF support of your project includes an acknowledgment of that support in the following terms:

“**This material is based upon work supported by the National Science Foundation under Grant Number [NSF Grant Number]**”

You and your institution are also responsible for assuring that every publication of material (including World Wide Web pages) based on or developed under award, (other than a scientific article or paper appearing in a scientific, technical, or professional journal) contains the following disclaimer:

“**Any opinions, findings, and conclusions or recommendations expressed in this material are those of the author(s) and do not necessarily reflect the views of the National Science Foundation.**”

**Supporting Files**

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<tr>
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<th>Description</th>
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<th>Uploaded On</th>
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<tbody>
<tr>
<td>(Remove)</td>
<td>This is a file example</td>
<td>Jim Hendin</td>
<td>06/29/2012 09:03 AM EDT</td>
</tr>
</tbody>
</table>
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.

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.

Agencies are interested in only those publications that most reflect the work under this award in the following categories:

- **Journal publications.** 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.”

  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).

- **Books or other non-periodical, one-time publications.** 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.
| 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).

**Other publications, conference papers and presentations.** Identify any other publications, conference papers and/or presentations not reported above. Specify the status of the publication as noted above. |
1.5. B.4.3 - PI - Report Entry: Products – Publications - Journal

Report Content

Products: What has the project produced?

- Journal publications: List peer-reviewed articles or papers appearing in scientific, technical, or professional journals.
- Books or other non-periodical, one-time publications: Report any book, monograph, dissertation, abstract, or the like published as or in a separate publication, rather than a periodical or series.
- Other publications, conference papers and presentations: Identify any other publications, conference papers and/or presentations not reported above.

Options for Adding Publications:
1. Search Publications
2. Upload Option
3. Manually Enter Below:

- Journal
- Book Chapters
- Conference Papers and Presentations
- Theses/Dissertations
- Other Publications

* Required field

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Publication Identifier Type

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<th>Acknowledgment of Federal Support</th>
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</table>

Save Entry

- Back to Products Summary
1.6. B.4.3.2 - PI - Report Entry: Products - Publications - Search Publications

**Award 1234567 - Annual Project Report**

**Report Content**

**Products - What has the project produced?**

*Back to Publications Entries*

Search Publications:
Enter search criteria to search Thomson Reuters Web of Science (PI) for publications to add to your report.

*Required fields:

- **Type:**
- **Author(s):**
- **Title:**
- **Journal:**
- **Conference:**
- **Time Span:**

3 results found

Show [25] per page

PAGE 1 of 1

Notes: For items you indicate as relevant to this award and reporting period, please indicate whether the publication included an acknowledgment of Federal Support.

<table>
<thead>
<tr>
<th>Primary Author</th>
<th>Title</th>
<th>Journal</th>
<th>Publication Date</th>
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<tbody>
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<td>Journal Title</td>
<td>2000-01</td>
</tr>
</tbody>
</table>

PAGE 1 of 1

Show [25] per page

< Back to Publications Entries
1.7. **B.4.5 - PI - Report Entry: Products - Technologies or Techniques**

**Research.gov**

**Award 1234567 - Annual Project Report**

Report Content

*Products - What has the project produced?*

Identify technologies or techniques that have resulted from the research activities. Describe the technologies or techniques and how they are being shared.

**Technologies or Techniques for this Reporting Period:**

   Nunc ultrices, nunc et malesuada faucibus, nunc est dictum, nunc euismod.
   Donec arcu mauris, aliquet nonummy, vehicula vitae, dispeus et amet luctus.
   Nisl aliquam vehicula, vel sapien nec, vel orci dignissim, vel orci dignissim.
   Nisl auctor, vel sapien nec, vel orci dignissim, vel orci dignissim.*

   Nunc ultrices, nunc et malesuada faucibus, nunc est dictum, nunc euismod.
   Donec arcu mauris, aliquet nonummy, vehicula vitae, dispeus et amet luctus.
   Nisl aliquam vehicula, vel sapien nec, vel orci dignissim, vel orci dignissim.*

*Description*

Save Entry

< Back to Products Summary
1.8. B.4.6 - PI - Report Entry: Products – Patents

Award 1234567 - Annual Project Report

Report Content

Products. What has the project produced?

* Required fields

** Patent Title

- Patent Abstract

- Patent No.

- Country

- Application Date

- Patent Status

- Date Issued

Save Entry

< Back to Products Summary

Patents:

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<th>Patent Abstract</th>
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<tbody>
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</tr>
</tbody>
</table>

< Show all

![Research.gov screenshot](image-url)

**Award 1234567 - Annual Project Report**

**Report Content**

**Products - What has the project produced?**

* Required fields

**Invention Title**

* Invention Description

**Inventor(s)**

---

**Inventions:**

- **Author, A. A., Author, B. B.**
  - Invention Title
  - Invention Description

- **Author, A. A., Author, B. B.**
  - Invention Title
  - Invention Description

---

*Back to Products Summary*
1.10. B.4.6.2 - PI - Report Entry: Products – Licenses

### Award 1234567 - Annual Project Report

**Report Content**

**Products: What has the project produced?**

- **< Back to Products Summary**

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<tr>
<td><strong>License Status</strong></td>
<td></td>
<td></td>
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<tr>
<td><strong>Application Date</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Date Issued</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>License Assignees</strong></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Licensees:**

<table>
<thead>
<tr>
<th><strong>Assignee</strong></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Assignee, A.</td>
<td>A</td>
<td>Assignee, B.</td>
</tr>
<tr>
<td>License Title</td>
<td></td>
<td>License Title</td>
</tr>
<tr>
<td>Status:</td>
<td>Licensed</td>
<td>Application Date: mm/dd/yyyy; Date Issued: mm/dd/yyyy</td>
</tr>
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</table>

**< Back to Products Summary**
1.11. B.4.7 - PI - Report Entry: Products - Websites

**Award 1234567 - Annual Project Report**

![Research.gov](image)

**Report Content**

**Products**: What has the project produced?

List the URL for any Internet site(s) that disseminates the results of the research activities. A short description of each site should be provided.

* Required fields

**Title**

**URL**

**Short Description of the Website**

![Save Entry](image)

![Back to Products Summary](image)

---

**Websites:**

<table>
<thead>
<tr>
<th>Websites:</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="Website" /></td>
</tr>
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</table>

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Curabitur 
*Required fields

http://www.example.com

Dolor ac arcu, a odio lorem vehicula vis, aliquam et diam

Show all
1.12. **B.4.8 - PI - Report Entry : Products - Other Products**

**Copy ID** | **CMS?** | **Copy**
--- | --- | ---
CW B.4.8 - 2 | N | Examples of other products are:
- Databases;
| • Physical collections; |
| • Audio or video products; |
| • Software or NetWare; |
| • Models; |
| • Educational aids or curricula; |
| • Instruments or equipment; |
| • Data & Research Material (e.g., cell lines, DNA probes, animal models); |
| • Evaluation Instruments; |
| • Survey Instruments; and |
| • Other. |
1.13. B.5 - PI - Report Entry: Participants

Participants & Other Collaborating Organizations - Who has been involved?

Agencies need to know who has worked on the project to gauge and report performance in promoting partnerships and collaborations.

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.

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

* Required fields

* What individuals have worked on the project?

<table>
<thead>
<tr>
<th>Name</th>
<th>Most Senior Project Role</th>
<th>Nearest Person Month Worked</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jon Smidder</td>
<td>PI/PI</td>
<td>7</td>
<td>View / Edit</td>
</tr>
</tbody>
</table>

* Add new participant

* What other organizations have been involved as partners?

No organizations entered.

☐ Nothing to report

* Have other collaborators or contacts been involved?

Some significant collaborators or contacts within the recipient's organization may not be covered by "What people have worked on the project?" Likewise, some significant collaborators or contacts outside the recipient's organization may not be covered under "What other organizations have been involved as partners?"

☐ Yes  ☐ No

Add new organization
<table>
<thead>
<tr>
<th>Copy ID</th>
<th>CMS?</th>
<th>Copy</th>
</tr>
</thead>
<tbody>
<tr>
<td>CW B.5 – 1</td>
<td>N</td>
<td>For example, has there been any:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• collaborations with others within the recipient’s organization;</td>
</tr>
<tr>
<td></td>
<td></td>
<td>especially interdepartmental or interdisciplinary collaborations;</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• collaborations or contact with others outside the organization; and</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• collaborations or contacts with others outside the United States or</td>
</tr>
<tr>
<td></td>
<td></td>
<td>with an international organization.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>It is likely that many recipients will have no other collaborators or</td>
</tr>
<tr>
<td></td>
<td></td>
<td>contacts to report.</td>
</tr>
</tbody>
</table>
1.14. B.5.1 - PI - Report Entry: Participants > Name

Provide the following information for: (1) principal investigator(s) or project director(s) (PI/PO), and (2) each person who has worked at least one person month per year on the project during the reporting period, regardless of the source of compensation.

* Required fields

First Name: 
Middle Name: 
Last Name: 
Email Address: 
Most Senior Project Role: Select one

* Least Person Month Worked: A person month equals approximately 160 hours of effort

* Contribution to the Project: 

* Funding Support: 

Identify whether this person is collaborating internationally on the project:

Yes  No

Country(ies) of foreign collaboration:

* Travelled to foreign country: Yes  No

Note: Participants that contributed greater than 160 hours will receive a notification via email to provide demographic information.
<table>
<thead>
<tr>
<th>Copy ID</th>
<th>CMS?</th>
<th>Copy</th>
</tr>
</thead>
</table>
| CW B.5.1-1 | | • Provide the name and identify the role the person played in the project. 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.  

Describe how this person contributed to the project and with what funding support. If information is unchanged from a previous submission, provide the name only and indicate "no change".

Identify whether this person is collaborating internationally. 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.

For NSF purposes, this should read: Identify whether this person is collaborating internationally on this project.

*Example:*

<table>
<thead>
<tr>
<th>Name:</th>
<th>Mary Smith</th>
</tr>
</thead>
<tbody>
<tr>
<td>Project Role:</td>
<td>Graduate Student</td>
</tr>
<tr>
<td>Nearest person month worked:</td>
<td>5</td>
</tr>
<tr>
<td>Contribution to Project:</td>
<td>Ms. Smith has performed work in the area of combined error-control and constrained coding.</td>
</tr>
<tr>
<td>Funding Support:</td>
<td>The Ford Foundation (Complete only if the funding support is provided from other than this award.)</td>
</tr>
<tr>
<td>Collaborated with individual in foreign country:</td>
<td>Yes</td>
</tr>
<tr>
<td>Country(ies) of foreign collaborator:</td>
<td>China</td>
</tr>
<tr>
<td>Travelled to foreign country:</td>
<td>Yes</td>
</tr>
<tr>
<td>If traveled to foreign country(ies), duration of stay:</td>
<td>5 months</td>
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A list of any other funding support, other than this award, that supported the participant's participation in the project.

CW B.5.1-2
1.1. B.5.2 - PI - Report Entry: Participants > Organization

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Report Summary

<table>
<thead>
<tr>
<th>Report Status</th>
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<td>Days Until Due</td>
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<td>Reporting Period</td>
<td>mm/dd/yyyy - mm/dd/yyyy</td>
</tr>
<tr>
<td>Last Submitted</td>
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Accomplishments: Started

Products: Started

Participants: Not Started

Impact: Not Started

Changes: Complete

Special Requirements: Not Started

Report Content

Participants & Other Collaborating Organizations - Who has been involved?

Describe partner organizations - academic institutions, other nonprofits, industrial or commercial firms, state or local governments, schools or school systems, or other organizations (foreign or domestic) - that have been involved with the project.

* Required fields

- Type of Partner Organization:
  - Select One
- Name:
- Location:
- Partner's contribution to the project (identify one or more):
  - Financial support
  - In-kind support (e.g., partner makes software, computer 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)
  - Personal exchange (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):

Save Entry  Cancel
Partner organizations may provide financial or in-kind support, supply facilities or equipment, collaborate in the research, exchange personnel, or otherwise contribute.

Provide the following information for each partnership:

**Organization Name:**

**Location of Organization:** (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); and
- 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)
1.15. B.6 - PI - Report Entry – Impact

**CW B.6-2**

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

INSTRUCTION 6 - 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 equilibration of data skills. Include the emergence of new careers 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.

* 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.

**CW B.6-3**

This is an untitled Principal Disciplines data!
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.

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.

Agencies use this information to assess how their research programs:

- increase the body of knowledge and techniques;
- enlarge the pool of people trained to develop that knowledge and techniques or put it to use; and
- improve the physical, institutional, and information resources that enable those people to get their training and perform their functions.

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:

- the development of the principal discipline(s) of the project;
- other disciplines;
- the development of human resources;
- physical, institutional, and information resources that form
| CW B.6-3 | N | infrastructure;  
| | | 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 society beyond science and technology. |
| CW B.6-5 | For example, how has the project:  
| | | provided opportunities for research and teaching in the relevant fields;  
| | | 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;  
| | | developed and disseminated new educational materials or provided scholarships; or  
| | | provided exposure to science and technology for practitioners, teachers, young people, or other members of the public?  
| | | For NSF purposes, the first bullet above should read “provided opportunities for research, teaching and mentoring in science and engineering areas.” |
| CW B.6-7 | 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.  
| | | including:  
| | | institutional resources (such as establishment or sustenance of societies or organizations);  
| CW B.6-8 | 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.  
| | | including:  
| | | information resources, electronic means for accessing such resources or for scientific communication, or the like.  
| CW B.6-9 | N | Including:  
| | | transfer of results to entities in government or industry;  
| | | instances where the research has led to the initiation of a start-up |

30
company; or adoption of new practices.

For example, in areas such as:

- improving public knowledge, attitudes, skills, and abilities;
- changing behavior, practices, decision making, policies (including regulatory policies), or social actions; or
- improving social, economic, civic, or environmental conditions.

1.16. B.7 - PI - Report Entry – Changes

For instance, in areas such as:

- improving public knowledge, attitudes, skills, and abilities;
- changing behavior, practices, decision making, policies (including regulatory policies), or social actions; or
- improving social, economic, civic, or environmental conditions.

1.16. B.7 - PI - Report Entry – Changes

For example, in areas such as:

- improving public knowledge, attitudes, skills, and abilities;
- changing behavior, practices, decision making, policies (including regulatory policies), or social actions; or
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### Changes that have significant impact on expenditures

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* Changes that have significant impact on expenditures

![CW B.7-7](image1)

Characters Remaining: 7801

- Nothing to report

### Significant changes in use or care of human subjects

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* Significant changes in use or care of human subjects

![CW B.7-8](image2)

Characters Remaining: 7807

- Nothing to report

### Significant changes in use or care of vertebrate animals

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* Significant changes in use or care of vertebrate animals

![CW B.7-9](image3)

Characters Remaining: 7805

- Nothing to report
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<td>CW B.7-5</td>
<td>N</td>
<td>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.</td>
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<tr>
<td>CW B.7-6</td>
<td>N</td>
<td>Describe problems or delays encountered during the reporting period and actions or plans to resolve them.</td>
</tr>
<tr>
<td>CW B.7-7</td>
<td>N</td>
<td>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.</td>
</tr>
<tr>
<td>CW B.7-8</td>
<td>N</td>
<td>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.</td>
</tr>
<tr>
<td>CW B.7-9</td>
<td>N</td>
<td>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.</td>
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<tr>
<td>CW B.7-10</td>
<td>N</td>
<td>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.</td>
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</table>
1.17. B.8 - PI - Report Entry - Special Requirements (Section not available for all project reports)
1.18. **B.10.1 - PI - Report Entry : Submit 2 (Certification)**

Award 1234567 - Annual Project Report

Your project report is ready for submission to NSF. If you want to submit new, please certify by checking the check box below then pressing the “Submit Report” button.

I certify that to the best of my knowledge (1) the statements herein (including 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 principal investigator 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  Cancel

1.19. **B.10.2 - PI - Report Entry : Submit 3 (Confirmation)**

Award 1234567 - Annual Project Report

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