# NATIONAL SCIENCE FOUNDATION FINAL PROJECT REPORT

## PART I - PROJECT IDENTIFICATION INFORMATION

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<tbody>
<tr>
<td>1. Program Official/Org.</td>
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<td>2. Program Name</td>
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<td>3. Award Dates (MM/YY) From:</td>
<td>To:</td>
</tr>
<tr>
<td>4. Institution and Address</td>
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<td>5. Award Number</td>
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<td>6. Project Title</td>
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NSF Grant Conditions (Article 17, GC-1, and Article 9, FDP-11) require submission of a Final Project Report (NSF Form 98A) to the NSF program officer no later than 90 days after the expiration of the award. Final Project Reports for expired awards must be received before new awards can be made (NSF Grants Policy Manual Section 677).

Below, or on a separate page attached to this form, provide a summary of the completed projects and technical information. Be sure to include your name and award number on each separate page. See below for more instructions.

**PART II - SUMMARY OF COMPLETED PROJECT (for public use)**

The summary (about 200 words) must be self-contained and intelligible to a scientifically or technically literate reader. Without restating the project title, it should begin with a topic sentence stating the project’s major thesis. The summary should include, if pertinent to the project being described, the following items:

- The primary objectives and scope of the project
- The techniques or approaches used only to the degree necessary for comprehension
- The findings and implications stated as concisely and informatively as possible

**PART III - TECHNICAL INFORMATION (for program management use)**

List references to publications resulting from this award and briefly describe primary data, samples, physical collections, inventions, software, etc. created or gathered in the course of the research and, if appropriate, how they are being made available to the research community. Provide the NSF Invention Disclosure number for any invention.

I certify to the best of my knowledge (1) the statements herein (excluding scientific hypotheses and scientific opinion) 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 of individuals working under their supervision. I understand that willfully making a false statement 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).

**IMPORTANT:**

MAILING INSTRUCTIONS

Return this *entire* packet plus all attachments in the envelope attached to the back of this form. Please copy the information from Part I, Block I to the *Attention block* on the envelope.
The data requested below are important for the development of a statistical profile on the personnel supported by Federal grants. The information on this part is solicited in response to Public Law 99-383 and 42 USC 1885C. All information provided will be treated as confidential and will be safeguarded in accordance with the provisions of the Privacy Act of 1974. You should submit a single copy of this part with each final project report. However, submission of the requested information is not mandatory and is not a precondition of future award(s). Check the "Decline to Provide Information" box below if you do not wish to provide the information.

Please enter the numbers of individuals supported under this grant.

Do not enter information for individuals working less than 40 hours in any calendar year.

<table>
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<tr>
<th></th>
<th>Senior Staff</th>
<th>Post-Doctorals</th>
<th>Graduate Students</th>
<th>Under-Graduates</th>
<th>Other Participants 1</th>
</tr>
</thead>
</table>

**A. Total, U.S. Citizens**

**B. Total, Permanent Residents**

U.S. Citizens or Permanent Residents 2:

- American Indian or Alaskan Native . . .
- Asian . . . . . . . . . . . . . . . . . . . . . . . . . . .
- Black, Not of Hispanic Origin . . . .
- Hispanic . . . . . . . . . . . . . . . . . . . . . . . . .
- Pacific Islander . . . . . . . . . .
- White, Not of Hispanic Origin . . . .

**C. Total, Other Non-U.S. Citizens**

Specify Country
1.
2.
3.

**D. Total, All participants (A + B + C)**

**Disabled 3**

- Decline to Provide Information: Check box if you do not wish to provide this information (you are still required to return this page along with Parts I-III).

1 Category includes, for example, college and precollege teachers, conference and workshop participants.

2 Use the category that best describes the ethnic/racial status for all U.S. Citizens and Non-citizens with Permanent Residency. (If more than one category applies, use the one category that most closely reflects the person’s recognition in the community.)

3 A person having a physical or mental impairment that substantially limits one or more major life activities; who has a record of such impairment; or who is regarded as having such impairment. (Disabled individuals also should be counted under the appropriate ethnic/racial group unless they are classified as "Other Non-U.S. Citizens.")

**AMERICAN INDIAN OR ALASKAN NATIVE**: A person having origins in any of the original peoples of North America and who maintains cultural identification through tribal affiliation or community recognition.

**ASIAN**: A person having origins in any of the original peoples of East Asia, Southeast Asia or the Indian subcontinent. This area includes, for example, China, India, Indonesia, Japan, Korea and Vietnam.

**BLACK, NOT OF HISPANIC ORIGIN**: A person having origins in any of the black racial groups of Africa.

**HISPANIC**: A person of Mexican, Puerto Rican, Cuban, Central or South American or other Spanish culture or origin, regardless of race.

**PACIFIC ISLANDER**: A person having origins in any of the original peoples of Hawaii; the U.S. Pacific territories of Guam, American Samoa, and the Northern Marinas; the U.S. Trust Territory of Palau; the islands of Micronesia and Melanesia; or the Philippines.

**WHITE, NOT OF HISPANIC ORIGIN**: A person having origins in any of the original peoples of Europe, North Africa, or the Middle East.

NSF Form 98A (Rev. 1/94)