Appendix D. Graduate Participant Survey

Guidelines for Reviewers

Note, because of the complicated skip patterns that will be programmed, the reviewer version of the survey, by necessity, requires that there be embedded among the questions notes documenting skip patterns, alternate wording of questions, and information about which respondents will receive a particular question. These programming notes appear in a small, blue, sans-serif font. Some questions also contain placeholders for text that varies depending on existing information (e.g., the start and end dates of a grant period) or a respondent's answer to an earlier item. These placeholders appear as [BROWN CAPITALIZED TEXT] inside brackets.

The online survey will automatically incorporate skip patterns and present the appropriate text for placeholders and question wording to the respondent. Also note that **boldface type** is used for emphasis, while an asterisk indicates that a roll-over definition is available to online respondents (see Glossary, below). Surveys will employ a variety of response structures and will be programmed to use radio buttons, checkboxes, text boxes, and drop down boxes. Examples of each are shown below.

Radio Buttons – Allow only one answer to a question. Click circle to select option. To change answer, click another button.

> Are you currently employed?
> - ◉ Yes
> - ○ No

Checkboxes – Allow multiple answers to a question. Click a box to select a response. Click a checked box to remove the choice.

> Which of the following degrees you have completed? *Check all that apply.*
> - ☐ Doctoral degree
> - ☒ Master's degree
> - ☐ Post-baccalaureate certificate
> - ☒ Bachelor's degree

Text boxes – Allows respondent to write answer to question within a box. The number inside brackets (i.e., the "2500" in [textbox, 2500]) indicates how many characters the respondent can enter into the textbox.

> What is your job title and what do you do in your job? [textbox, 2500]

Drop down – Allows respondent to select one answer from a list of specified list of options. Respondents click on box, and then scroll to select option.

> In what month and year did you complete your graduate degree?
>
> | Month: | | [Drop box] |
> | Year: | | [Drop box] |

Glossary

Foreign: When referring to individuals, "**foreign**" means people who are **based primarily in institutions or locations outside the U.S.**, regardless of their citizenship or country of origin. (In other words, "foreign" could refer to a U.S.-citizen who is primarily based at an institution outside the U.S.) **When referring to places, "foreign"** means countries or locations outside the 50 United States or the District of Columbia.

Institution: Typically refers to a university, college or other higher educational entity but also includes private or governmental research institutes, museums, laboratories, foundations, non-profit or for-profit businesses, or other organizations where project participants may be employed or affiliated.

Placeholders

SURVEY_DATE / NOVEMBER 15, 2015: The first day that the survey is fielded will serve as a common reference date across respondents. November 15, 2014 is currently filled as a hypothetical survey fielding date. After OMB approval, this date will be replaced with the actual field date of the survey.

PIRE/COMPARISON_PROJECT_NAME: The title of the PI's or co-PI's project funded by PIRE or the comparison program.

COMPARISON_PROGRAM, COMPARISON_PROGRAM_ACRONYM: The name (or acronym) of the NSF program from which a PI in the comparison group received an award. For example, NSF's "Dynamics of Coupled Natural and Human Systems" is one of the programs from which projects in the comparison group are drawn. The program acronym is "CNH."

URL TO AWARD ABSTRACT: Hypertext link to the award abstract posted on nsf.gov

ABBREVIATED_PROJECT_NAME: Because project titles are often long, a shortened name will be introduced and substituted for the full title in survey questions.

AWARD_START_DATE: Date when the PIRE/COMPARISON award period began, according to NSF records.

AWARD_END_DATE: Date when the PIRE/COMPARISON award period ended (if applicable), according to NSF records. If a project is still active, the SURVEY_DATE will be used as the most recent reference date for questions.

PARTICIPATION_START_DATE: Collected during the survey, the date the respondent reports first engaging in project activities. Not all co-PIs, postdocs, graduate students or undergraduates begin their participation on the date when the award officially commences.

PARTICIPATION_END_DATE: Collected during the survey, the date the respondent reports last engaging in project activities. Not all co-PIs, postdocs, graduate students or undergraduates continue participating on the project until its official end date.

PIRE/COMPARISON INSTITUTION: Filled from NSF program records, this is the name of the institution through which the graduate student participated in PIRE or the COMPARISON project. This may not always be identical to the institution where the student is enrolled for a degree.

GRAD_INSTITUTION: Collected during the survey, the name of the institution where the respondent was enrolled in graduate school at the time she/he participated in the PIRE or COMPARISON project.

GRAD_DEGREE: Collected during the survey, the type of degree (e.g., Master's, Doctorate) the student was pursuing when she/he participated in the PIRE or COMPARISON project.

GRADSCHOOL_START_DATE: Collected during the survey, the date the student first enrolled in graduate school during the period of time that participation in the PIRE or COMPARISON project occurred

GRAD_DEGREE_DATE: Collected during the survey, the date the student completed the graduated degree she/he was pursuing when participation in the PIRE or COMPARISON project occurred

GRADSCHOOL_END_DATE: Collected during the survey from students who report not completing their graduate degree; this is the date when last enrolled in graduate school for that degree.

HIGHEST_DEGREE: Collected during the survey, the highest post-secondary degree the respondent has completed.

BA_DEGREE_DATE: Collected during the survey, the date when the respondent received bachelor's degree.

Collaboration in Science and Engineering: Survey of Graduate Student Participants in the National Science Foundation's PIRE and [COMPARISON_PROGRAM] Programs

This survey is about your role as a current or former participation as a graduate student in research or educational activities funded by a National Science Foundation (NSF) award called "[PIRE/COMPARISON_PROJECT_NAME]." You may have participated in research or educational activities without knowing that these activities were supported by NSF funding. Even so, we would like you to participate in the survey. You can view a description of this award on the next screen, by clicking <URL TO AWARD ABSTRACT>.

None of the survey questions are of a sensitive nature, but you are free to skip any question you prefer not to answer. Researchers at Abt Associates, an independent research firm with over 40 years' experience in higher education, are conducting this survey as part of an evaluation of the NSF's *Partnerships for International Research and Education* (PIRE) program.

> For the survey to be useful, we need graduate students who took part in activities funded through a PIRE award [for comparison group respondents only: **or through a different NSF award program such as COMPARISON_PROGRAM_ACRONYM**] to participate.

Participation is voluntary. Choosing to participate or not will have no effect on your current or future receipt of NSF funding (we will not reveal to NSF whether or not you have participated). **We will protect your privacy** to the extent permissible by law by separating the responses you provide from your name, contact information and other identifiers (e.g., your computer's IP address, your current or former institution's name). Your survey results will be summarized along with the responses of other graduate students in aggregate statistical form only. We will give NSF data from survey respondents only after we have removed personally identifiable information about you.

Questions? See the Frequently Asked Questions page <FAQs>; or contact the study director, Carter Epstein of Abt Associates Inc. (toll-free: 1-800-XXX-XXX; email: NSF_PIRE_Abt@abtassoc.com) or contact John Tsapogas at NSF (jtsapoga@nsf.gov). For questions about participating in this research study, contact Abt's Institutional Review Board (XXX-XXX-XXXX; email: irb@abtassoc.com). This study's IRB approval number is #XXXX.

> **OMB Clearance Number: xxxx-xxxx**   **Expiration Date: xx/xx/xxxx**
> **Estimates of Burden for the Collection of Information.** According to the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this collection is xxxx-xxxx. The time required to complete this information collection is estimated to average 25 minutes per response, including the time to review instructions, search existing data resources, gather the data needed, and complete and review the information collected.

[CONTINUE]

MODULE A: YOUR GRADUATE EDUCATION AND THE [PIRE/COMPARISON] PROJECT

To confirm that we've reached the right person, we'd like to begin with a few questions about you.
A1a.　Is your name [First Name, Middle Name/Initial, Last Name]?

❍ Yes, this is correct.
❍ No, my name has changed or my name is misspelled above. My name is: [textbox, 75]
❍ No, I'm not the person named above.

If A1a=　yes, go to A1b.
If A1a=　my name has changed or my name is misspelled above, go to A1b.
If A1a=　no, I'm not the person named above, go to **Exit Screen** and Flag for follow-up.

A1b.　　When you first participated in the [PIRE/COMPARISON_PROJECT_NAME] project, where were you enrolled as a graduate student?

　　❍　At [PIRE/COMPARISON INSTITUTION]
　　❍　At a different institution **within the U.S.**: Please enter the institution's name, city, and state.
　　　　School name: [textbox, 100]. City: [textbox, 75]. State: [dropdown menu]
　　❍　At a different institution **outside the U.S.**: Please enter the institution's name, city, and country:
　　　　School name: [textbox, 100]. City: [textbox, 75]. Country: [textbox, 100]
　　❍　I was never enrolled in graduate school.
　　❍　I did not participate in this project as a graduate student.
　　❍　Other, specify: [textbox 300]

If A1b = 1ST option, go to A1c.
If A1b = 2nd option, let [GRAD_INSTITUTION= institution name entered] and go to A1c.
If A1b=3rd option, let [GRAD_INSTITUTION= institution name entered] and go to A1c.
If A1b=I was never ...in graduate school, go to **Exit Screen** and Flag for follow-up.
If A1b= I did not participate in this project, go to Exit Screen and Flag for follow-up.
If A1b= Other go to **Exit Screen** and Flag for follow-up.

A1c.   When you first participated in the [PIRE/COMPARISON_PROJECT_NAME] project, what is the **highest** degree you were working on or that you expected to earn from [GRAD_INSTITUTION]?

If you were working on multiple degrees/certificate, such as a Master's degree and a PhD, please select **only the highest degree** you expected to earn. *Mark one answer only.*

○ Post-baccalaureate certificate (e.g., teaching certificate)
○ Master's degree
○ Doctoral degree (PhD, EdD, MD/PhD, etc.)
○ Other, please specify: [textbox, 25]

Let GRAD_DEGREE= response from A1c.

A2.   Are you **currently** enrolled for this [GRAD_DEGREE] **at** [GRAD_INSTITUTION]?

(If you are currently enrolled at this school for a degree **other than** a [GRAD_DEGREE], please answer "No." You will tell us about other graduate degrees later in the survey.)

○ Yes, currently enrolled at [GRAD_INSTITUTION]
     ○ Currently enrolled for this degree, but at a different institution. I am enrolled for this [GRAD_DEGREE] at: [textbox, 300]
○ No, I am not currently enrolled for this [GRAD_DEGREE]

If A2=currently …at a different institution, let [OTHER_INSTITUTION] =entry in textbox. If A2=currently …at a different institution and the textbox=missing, let [OTHER_ INSTITUTION] = "unknown institution".

If currently enrolled for grad degree (A2=yes, at GRAD_INSTITUTION or other university): What is…
If not currently enrolled for grad degree (A2=no): What was…

A3.   What is/What was your field of study for your [GRAD_DEGREE] at [PIRE/COMPARISON/OTHER_INSTITUTION]? Please select your or field of study from the list provided.

First select the general area; then select the field or discipline that best describes the field of your highest degree.

Dropdown menus: **<select general area>**   **<select field>**
SEE APPENDIX H.1 for areas and fields

If currently enrolled for grad degree (A2=yes, at GRAD_INSTITUTION or other university), go to A7 (when did you first attend GRAD_INSTITUTION/ OTHER_INSTITUTION?).
If not currently enrolled for grad degree (A2=no), go to A4 (did you receive your grad degree?).

A4.   Did you complete your program of study and receive your [GRAD_DEGREE] from [GRAD_INSTITUTION] (or another institution) before [NOVEMBER 15, 2014]?

❍ Yes, from [GRAD_INSTITUTION]
   ❍ Yes, from [OTHER_INSTITUTION] [response option only shown if A2=yes, different university and A2_text not equal missing]
❍ Yes from another institution: Enter the name of this institution: [textbox, 150]
❍ No

A5.   In what month and year did you receive your [GRAD_DEGREE] from **[GRAD_INSTITUTION/OTHER_INSTITUTION /OTHER2_INSTITUTION]**? If you know the year but not the month, please enter the year. If you know the month but not the year, please enter the month.

Month: <dropdown from January to December>
Year: <dropdown from 1990 to 2014>

A6.   In what month and year were you last enrolled for your [GRAD_DEGREE]? If you know the year but not the month, please enter the year. If you know the month but not the year, please enter the month.

Month: <dropdown from January to December>
Year: <dropdown from 1990 to 2014>

A7. In what month and year did you **first** attend [GRAD_INSTITUTION] for your [GRAD_DEGREE]? If you know the year but not the month, please enter the year.

Month: <dropdown from January to December>
Year: <dropdown from 1990 to 2014>

- If (MONTH is selected AND YEAR is selected) fill [GRADSCHOOL_START_DATE] in subsequent items with A7_Month, A7_Year. Go to A7b.
- If (MONTH is missing AND YEAR is selected), go to A7a.
- If (MONTH is missing AND YEAR is missing), fill [GRADSCHOOL_START_DATE] in subsequent items with "the date you first attended [GRAD_INSTITUTION] as a graduate student" and set internal variable A7_Month=missing and set internal variable A7_Year =missing. Go to A7b.
- If (MONTH is selected AND YEAR is missing) fill [GRADSCHOOL_START_DATE] in subsequent items with "the date you first attended [GRAD_INSTITUTION] as a graduate student" and set internal variable A7_Year =missing. Go to A7b.

A7a is shown only if only month of first attendance at GRAD_INSTITUTION is missing (A7_month=miss).

A7a. Did you first attend [GRAD_INSTITUTION] for your [GRAD_DEGREE] **before** or **after** July 1st of [YEAR FIRST ATTENDED THIS INSTITUTION, ITEM A7]:

❍ Before July 1st, [YEAR FROM ITEM A7]
❍ After July 1st, [YEAR FROM ITEM A7]

- If A7a = before, let [GRADSCHOOL_START_DATE] ="Winter/Spring, A7_Year" in subsequent items.
- If A7a = after, let [GRADSCHOOL_START_DATE] ="Summer/Fall, A7_Year" in subsequent items.
- If A7a = missing, let [GRADSCHOOL_START_DATE] ="the date you first attended [GRAD_INSTITUTION] in [GRADSCHOOL_START_DATE_YEAR] as a graduate student" in subsequent items, and set internal variable A7_Month=missing.

Go to A7b.

A7b.   The [ABBREVIATED_PROJECT_NAME] project officially began in [AWARD_START_DATE].
       When did you **first** participate in research or educational activities associated with this
       award? If you are unsure of the month, please enter your best approximation. *Please enter
       the month and year.*

       Month: <dropdown from January to December>
       Year: <dropdown from AWARD_YEAR to 2014>

Let PARTICIPATION_START_DATE = "Month, Year" entered.
if date entered ([PARTICIPATION_START_DATE]) is earlier than [AWARD_START_DATE], display the following note:

⚠️   **Note**: You have participated in activities for this project **prior to** its official starting date
       ([AWARD_START_DATE]). We recognize that activities related to a project may begin before
       the project's official start date.   However, **please read survey items carefully** because
       some items may ask you to **exclude** activities that occurred before the project's official start
       date of [AWARD_START_DATE].

If PARTICIPATION_START_DATE is earlier than AWARD_START_DATE, display alternate versions of Items C1, C2a,
C2b, D2, D3 and D4 as shown in those items.
If PIRE/COMPARISON award is still active, go to A8 (completed contributions to PIRE/COMPARISON?)
If PIRE/COMPARISON award is no longer active, go to A9 (still contributing to PIRE/COMPARISON in month of
award end?).

A8 is shown only if PIRE/COMPARISON award is still active.

A8.   As of [NOVEMBER 15, 2014], have you completed your contributions to the
       [ABBREVIATED_PROJECT_NAME] project? If you will be engaging in research or
       educational activities that are part of this project in the future, please answer "No: I am still
       contributing –or will be contributing in the future—to this project."

       ○ Yes, I have completed my contributions to this project.
       ○ No, I am still contributing – or I will be contributing in the future—to this project.

If A8=yes, go to A10 (to get [PARTICIPATION_END_DATE])
If A8=no, let [PARTICIPATION_END_DATE] = [NOVEMBER 15, 2014]. Go to Module B.
If A8=missing, let [PARTICIPATION_END_DATE] = [NOVEMBER 15, 2014] (i.e., classified as a still-active contributor).
Go to Module B.

A9. The official award period for the [PIRE/COMPARISON] project, [ABBREVIATED_PROJECT_NAME], ended in [AWARD_END_MONTH, AWARD_END_YEAR]. Were you still contributing to this project in the month that the award period ended?

○ Yes
○ No

A9a.

⚠️ We recognize that you may have conducted research or engaged in educational activities associated with the [ABBREVIATED_PROJECT_NAME] project **after** its official end date ([AWARD_END_DATE]), **but please read survey items carefully** because some items ask you to distinguish between activities that occurred **before** and activities that occurred **after** the official end date of [AWARD_END_DATE].

A10. When did you **last** contribute to research or other activities associated with the [ABBREVIATED_PROJECT_NAME] project? Please enter the month and year.

       Month: <dropdown from January to December>
       Year: <dropdown from AWARD_START_YEAR to 2014>

MODULE B: COLLABORATIONS AND [PIRE/COMPARISON] PROJECT EXPERIENCES

If currently enrolled for grad degree (A2=yes, at GRAD_INSTITUTION or A2=currently enrolled at a different institution): Have you ever conducted
If not currently enrolled for grad degree (A2=no): Did you ever conduct

B1.   While pursuing your [GRAD_DEGREE] at [GRAD_INSTITUTION] [if A2=currently enrolled at a different institution or A4=completed grad degree at OTHER_INSTITUTION or from another institution: (or at OTHER_INSTITUTION/OTHER2_INSTITUTION)] [have you ever conducted/did you ever conduct] research related to the project, "[PROJECT NAME]"? You can view a description of this project here <AWARD ABSTRACT>.

   ◯ Yes
         ◯ No
         ◯ Not sure the research was related to this project

If B1=yes, go to B2 (collaborated as part of PIRE/COMPARISON project?)
If B1=not sure, go to "An Important Note about the Next Questions"
If B1=no, go to B3 (did you travel abroad for PIRE/COMPARISON project?)

If B1= NOT SURE the research was related to the project, display this note. Otherwise skip note, go to B2 (if B1=yes) or B3 (if B1=no)

An Important Note about the Next Questions
The next several questions ask about activities associated with the [ABBREVIATED_PROJECT_NAME] project **while you were a graduate student pursuing your [GRAD_DEGREE]**.

Please answer the next set of questions **even if you are not sure** if activities you participated in were associated with the project named above. You were listed as a participant in one of this project's activities by the Principal Investigator. It is likely that your research was related to this project. You may review the description of this project here <AWARD ABSTRACT>.

[CONTINUE]

B2 is shown only if respondents conducted PIRE/COMPARISON research (B1=yes OR B1=not sure).
If still contributing to PIRE/COMPARISON (A8=no): have you collaborated
If PIRE/COMPARISON contributions completed (A8=yes) OR PIRE/COMPARISON award not active: were you collaborating

B2.   While pursuing your [GRAD_DEGREE] and conducting research related to the [ABBREVIATED_PROJECT_NAME] project, [have you collaborated/were you collaborating] with any of the following?   *Select Yes or No in each row.*

		Yes	No
A.	Faculty, senior-level or postdoctoral-level researchers based primarily at an institution or location in the U.S.?	◯	◯
B.	Graduate students based primarily at an institution or location in the U.S.?	◯	◯
C.	Undergraduate students based primarily at an institution or location in the U.S.?	◯	◯
D.	Faculty, senior-level or postdoctoral-level researchers based primarily at an institution or location **outside the U.S.**?	◯	◯
E.	Graduate students based primarily at an institution or location **outside the U.S.**?	◯	◯
F.	Undergraduate students based primarily at an institution or location **outside the U.S.**?	◯	◯

If *all* rows in B2=no, go to B3 (traveled abroad for PIRE/COMPARISON?)
If *any* rows in B2=yes: AND respondent has completed contributions to PIRE/COMPARISON (A8=yes) OR PIRE/COMPARISON award not active, go to B2a (collaborated with PIRE/COMPARISON researchers post-participation?)
If *any* rows in B2=yes AND respondent is still contributing to PIRE/COMPARISON (A8=no), go to B3 (traveled abroad for PIRE/COMPARISON?)

B2a.   Between (PARTICIPATION_END_DATE) and NOVEMBER 15, 2014, have you collaborated with any U.S. or foreign* member of the [ABBREVIATED_PROJECT_NAME] project team? *Please answer Yes or No for each row below.*

Rollover definition:
By "**foreign**" member of the project team, we mean someone **based primarily at an institution or location outside the U.S.**

Row	Since my participation in the project ended, I have collaborated with:	Yes	No
A	One or more project members who were—and are still—based primarily **in the U.S.**	○	○
B	One or more project members who were —and are still—based primarily **outside the U.S.**	○	○
C	One or more project members who were based primarily **in the U.S.** but *who are now* based primarily **outside the U.S.**	○	○
D	One or more project members who were based primarily **outside the U.S.** but *who are now* based primarily **in the U.S.**	○	○

B2b. When was the most recent time you have collaborated with a member of the [ABBREVIATED_PROJECT_NAME] project team?

Row	Most recent collaboration with. . .	Within the past 6 months	6 months to less than 1 year ago	1 year to less than 2 years ago	2 years to less than 4 years ago	4 or more years ago
A	Display if B2b_RowA=yes One or more project members who were—and are still—based primarily **in the U.S.**	❍	❍	❍	❍	❍
B	Display if B2b_RowB=yes One or more project members who were —and are still—based primarily **outside the U.S.**	❍	❍	❍	❍	❍
C	Display if B2b_RowC=yes One or more project members who were based primarily **in the U.S.** but *who are now* based primarily **outside the U.S.**	❍	❍	❍	❍	❍
D	Display if B2b_RowD=yes One or more project members who were based primarily **outside the U.S.** but *who are now* based primarily **in the U.S.**	❍	❍	❍	❍	❍

B2c.   Which of the following describe your collaboration(s) with someone from the [ABBREVIATED_PROJECT_NAME] project team who was—or who is now—based primarily outside the U.S. (that is, with a foreign partner)? *Check all that apply.*

❑ I have traveled outside the U.S. to work with one or more foreign partners
❑ I have met with one or more foreign partners at conferences outside the U.S.
❑ I have (or have had) a position at an institution outside the U.S.
❑ A foreign partner has traveled to the US to work with me
❑ A former foreign partner has (or has had) a position at an institution in the U.S.
❑ A former U.S.-based partner has (or has had) a position at an institution outside the U.S.
❑ I have planned one or more research projects with a foreign partner
❑ I have conducted one or more research projects with a foreign partner
❑ I have discussed developments in our research field(s) with a foreign partner
❑ I have shared data or other resources with a foreign partner
❑ None of the above

Rollover definition:
By **"foreign"** partner, we mean someone **who was, or who is now, based primarily at an institution or location outside the U.S.** regardless of this person's citizenship or country of origin.

B2d.   Between [PARTICIPATION_END_DATE] and [NOVEMBER 15, 2014], have you collaborated with any **foreign** partner (i.e., someone based primarily at an institution or location outside the U.S.) who was **not affiliated** with the [ABBREVIATED_PROJECT_NAME] project? *Check one only*

Note: By **"foreign"** partner, we mean someone **who was, or who is now, based primarily at an institution or location outside the U.S.** regardless of this person's citizenship or country of origin.

If a partner was based primarily at an institution outside the U.S. during some part of the collaboration, please answer yes. Otherwise, answer no.

❍ Yes
❍ No

B2e. Between (PARTICIPATION_END_DATE) and NOVEMBER 15, 2014, how many **foreign***
      partners have you collaborated with?

     ○ 1
     ○ 2
     ○ 3
     ○ 4 or more

Rollover definition:
By **"foreign"** partner, we mean someone **who was, or who is now, based primarily at an institution or location outside the U.S.** regardless of this person's citizenship or country of origin.

B2f. Please think about the one foreign partner—that is, someone based primarily outside the
      U.S.—with whom you have collaborated the **longest**.

      (*i*) As of November 15, 2014, how long have you been collaborating with this person?   You
              may enter months, years, or any combination:
      Years: <0 years to 30 or more years> **and Months**: <1 month to 11 months>

(*ii*) Is this person **currently** based primarily at an institution:
             ○ Outside the U.S.
             ○ Within the U.S.

(*iii*) As of November 15, 2014, how long [has this person been/was this person] based primarily at
        an institution outside the U.S.? If you are unsure please select your best guess.
        Years: <0 years to 30 or more years> **and Months**: <1 month to 11 months>

An Important Note about the Next Questions
  When answering the next set of questions, please focus on your participation in activities that occurred outside the U.S. and were related to the [ABBREVIATED_PROJECT_NAME] **while you were pursuing your [GRAD_DEGREE].**

[CONTINUE]

B3.   While pursuing your [GRAD_DEGREE] [have you traveled/did you travel] outside the U.S. to participate in research or educational activities related to the [ABBREVIATED_PROJECT_NAME] project (**other than travel solely to attend a professional conference**)?

Please answer yes, if:
- This foreign travel was related to the [ABBREVIATED_PROJECT_NAME] project; **and**
- This foreign travel was not solely to attend a professional conference.

Please answer no if your **only** foreign travel for this project was for the purpose of attending a professional conference.

❍ Yes
❍ No

B4.   Where outside the U.S. [have you traveled/did you travel] while pursuing your [GRAD_DEGREE] for activities related to the [ABBREVIATED_PROJECT_NAME] project? Do not include brief stops due to travel layovers or delays or stays lasting less than 24 hours. You may indicate up to five different countries.

[if not currently enrolled in grad school (Item A2): Please **exclude** any trips for which you departed the U.S. **after** you were enrolled in graduate school.]
[if currently enrolled in grad school (Item A2): Please exclude a trip for which you departed the U.S. **after** [NOVEMBER 15, 2014]

1st country
Select the first letter of the country to see a list
[populated with drop-down list of countries. See APPENDIX H.2]

A	B	C	D	E	F	G	H	I-J	K
L	M	N	O	P	Q-R	S	T	U-V	W-Z

2nd country

A	B	C	D	E	F	G	H	I-J	K
L	M	N	O	P	Q-R	S	T	U-V	W-Z

3rd country

A	B	C	D	E	F	G	H	I-J	K
L	M	N	O	P	Q-R	S	T	U-V	W-Z

4th country

A	B	C	D	E	F	G	H	I-J	K
L	M	N	O	P	Q-R	S	T	U-V	W-Z

5th country

A	B	C	D	E	F	G	H	I-J	K
L	M	N	O	P	Q-R	S	T	U-V	W-Z

B5.   For which of the following purposes related to the [ABBREVIATED_PROJECT_NAME] project did you go abroad while pursuing your [GRAD_DEGREE]? *Check all that apply.*

❑ Conduct research
❑ Take classes at a university or other educational institution
❑ Participate in an internship
❑ Attend planning meetings or workshops for upcoming research
❑ Other – specify [textbox, 300]

B6.   What types of coursework did you take at a foreign university or foreign educational institution as part of your participation in the [ABBREVIATED_PROJECT_NAME] project while pursuing your [GRAD_DEGREE]? *Check all that apply.*

❑ Courses, seminars, or lectures in my graduate field of study
❑ Courses, seminars, or lectures in fields other than my graduate field of study
❑ Foreign language classes
❑ Classes about the history, geography, or culture of the country/region
❑ Other – specify [textbox, 300]

B7. Which of the following describes your foreign internship **setting** and the **type of work** involved? *Check all that apply.*

Setting:
- ❑ Elementary or secondary school
- ❑ Medical or health care institution
- ❑ College, university, or other institution of higher education
- ❑ Research institute or national laboratory
- ❑ Government agency
- ❑ Non-governmental organization (excluding any belonging to one of the above categories)
- ❑ Industry or business (excluding any belonging to one of the above categories)
- ❑ Another setting, please specify: [textbox, 300]

Type of work:
- ❑ Research or research & development (R&D)
- ❑ Policy-related work
- ❑ Teaching, training, or mentoring others
- ❑ Providing help or services to others

B8.   While pursuing your [GRAD_DEGREE] and conducting research related to the [ABBREVIATED_PROJECT_NAME] outside the U.S., were you interacting directly with any **foreign*** project members?   *Select Yes or No in each row.*

Rollover definition
By "**foreign**" partner, we mean someone **who was based primarily at an institution or location outside the U.S.** regardless of this person's citizenship or country of origin.

While I was outside the U.S. for the project, I interacted directly with:	**Yes**
Senior- or postdoctoral-level partners based primarily **outside the U.S.**	○
Graduate students based primarily **outside the U.S.**	○
Undergraduate students based primarily **outside the U.S.**	○

B9a.   While pursuing your [GRAD_DEGREE], **how many times** [have you traveled/did you travel] outside the U.S. for activities related to the [ABBREVIATED_PROJECT_NAME] project? **Exclude** any trip you took **only** to attend a professional conference.

[if currently enrolled in grad school (see item A2), display note:
Please **exclude** a trip for which you departed the U.S. **after** [NOVEMBER 15, 2014]
if not currently enrolled in grad school (see item A5 and A6), display note:
Please **exclude** any trip for which you departed the U.S. **after** [GRAD_DEGREE_DATE or GRADSCHOOL_END_DATE]

    ○ Once
    ○ More than once:
Please enter the total number of trips: __

B9b.   Thinking about these [NUMBER OF TRIPS FROM B9a] trips outside the U.S. while pursuing your [GRAD_DEGREE], how many consecutive days, weeks or months were you outside the U.S. for activities related to the [ABBREVIATED_PROJECT_NAME] project? Please indicate the number of consecutive days, weeks or months **on average**, and the number of consecutive days, weeks or months for the **single longest** such trip?

On average, a trip outside the U.S. for activities related to the project lasted how many consecutive days/weeks/months?	__	<select days, weeks or months>
Single longest trip outside the U.S. for activities related to the project lasted how many consecutive days/weeks/months?	__	<select days, weeks or months>

B9c.   While pursuing your [GRAD_DEGREE], how many consecutive days, weeks or months were you outside the U.S. for activities related to the [ABBREVIATED_PROJECT_NAME] project?

How many consecutive days/weeks/months did this trip outside the U.S. (for activities related to the project) last?		<select days, weeks or months>

MODULE C: PROJECT EXPERIENCES AND RESULTS

If PARTICIPATION_START_DATE equal to or later than AWARD_START_DATE, display version 1.
If PARTICIPATION_START_DATE earlier than AWARD_START_DATE, display version 2.

VERSION 1:
C1.   Between [PARTICIPATION_START_DATE] and [PARTICIPATION_END_DATE], how many weeks, months (or years) [have you been/were you] conducting research associated with the project: [ABBREVIATED_PROJECT_NAME]?   If you are unsure, please enter your best approximation.

If PIRE/COMPARISON award not active AND respondent was still contributing to the project in the final month of the award period (see Item A9), display the following warning:

⚠️   We recognize that you may have conducted research (or engaged in educational activities) related to the project **after** [AWARD_END_DATE]}, but please **do not include** those months in your total.

VERSION 2:
C1.   Between [AWARD_START_DATE] (the official start date) and [PARTICIPATION_END_DATE], how many weeks, months (or years) [have you been/were you] conducting research associated with the project: [ABBREVIATED_PROJECT_NAME]?   If you are unsure, please enter your best approximation.

Display the following warning:

⚠️   We recognize that you may have conducted research (or engaged in educational activities) related to the project **before** [AWARD_START_DATE]} {(If PIRE/COMPARISON award not active AND respondent was still contributing to the project in the final month of the award period (see Item A9)}: or **after** [AWARD_END_DATE]}, but please **do not include** those months in your total.

Number of months/years: _____< months>   _____ < years>

If PARTICIPATION_START_DATE equal to or later than AWARD_START_DATE, display version 1.
If PARTICIPATION_START_DATE earlier than AWARD_START_DATE, display version 2

Version 1:

C2a.   Between [PARTICIPATION_START_DATE] and [NOVEMBER 15, 2014], how many of the following works related to the [ABBREVIATED_PROJECT_NAME] project have you produced as an author, co-author, inventor, co-inventor, developer, or co-developer? Make your best approximation if you do not know the exact number.

Version 2:

C2a.   Between [AWARD_START_DATE] and [NOVEMBER 15, 2014], how many of the following works related to the [ABBREVIATED_PROJECT_NAME] project have you produced as an author, co-author, inventor, co-inventor, developer, or co-developer? Make your best approximation if you do not know the exact number.

	None	Total	**How many of these include a foreign* co-author, co-inventor, co-developer?**
Conference abstracts, posters or presentations (including any published in conference proceedings)	❑		
Patents, registered or pending, provisional or non-provisional	❑		
Other products that have been disseminated to the scholarly community or public (e.g., educational material, software application, dataset, database)	❑		

Roll-over definition: By **foreign** co-author, co-inventor, or co-developer, we mean a person who is based primarily at an institution or location outside the U.S.

If PARTICIPATION_START_DATE equal to or later than AWARD_START_DATE, display version 1.
If PARTICIPATION_START_DATE earlier than AWARD_START_DATE, display version 2

Version 1:
C2b.   Between [PARTICIPATION_START_DATE] and [NOVEMBER 15, 2014], how many **invited** talks, presentations or seminars have you given on research conducted as part of your participation in the [ABBREVIATED_PROJECT_NAME] project? Have any of these invited talks included a foreign co-presenter?

Version 2:
C2b.   Between [AWARD_START_DATE] and [NOVEMBER 15, 2014], how many **invited** talks, presentations or seminars have you given on research conducted as part of your participation in the [ABBREVIATED_PROJECT_NAME] project? Have any of these invited talks included a foreign co-presenter?

None	Total # of invited talks	How many of these included a foreign* co-presenter?
❑		

Roll-over definition: By **foreign** co-presenter, we mean a person who is based primarily at an institution outside the U.S.

C3. As of [NOVEMBER 15, 2014], how many of the following **not yet published** works related to the [ABBREVIATED_PROJECT_NAME] project have you produced as an author or co-author? For this question, only include works that were in press, under review, in preparation, or otherwise not yet published, posted or disseminated either in print or electronically as of [NOVEMBER 15, 2014].

Do not include already published works. The study includes a separate data collection of already published works on which you are an author or co-author.
Make your best approximation if you do not know the exact number.

As of [NOVEMBER 15, 2014]:	None	Total (if none, enter "0")	How many of these include a foreign* co-author?
Peer-reviewed research reports, articles or papers **IN PRESS**	❑		
Research reports, articles or papers **UNDER REVIEW**	❑		
Manuscripts **IN PREPARATION**	❑		

Roll-over definition: By **foreign** co-author, we mean a person **primarily at an institution or location outside the U.S.**

C4.   For each of the following statements please indicate whether you strongly agree, agree, disagree or strongly disagree:

	Strongly Agree	Agree	Disagree	Strongly Disagree	Not applicable
My research benefited from access to expertise of foreign* partners in my field	○	○	○	○	○
My research benefited from access to data acquired in foreign locations	○	○	○	○	○
My research benefited from access to equipment or facilities in foreign locations	○	○	○	○	○
My research benefited from access to place-based phenomena that occur outside the U.S. (e.g., biological, geological, cultural phenomena)	○	○	○	○	○
Regulatory, bureaucratic or administrative procedures in a foreign country [have hindered/hindered] the progress of the research*	○ ○		○	○	○
Different cultural perspectives [have improved/improved] the quality of the research	○ ○		○	○	○
Language differences [have hindered/hindered] the progress of the research*	○ ○		○	○	○

Rollover definition:

A **foreign** partner is someone **based primarily in an institution or location outside the U.S.** (regardless of his or her citizenship or country of origin). A **foreign** location is a place outside the 50 United States and the District of Columbia.

C5.   [Have you experienced/Did you experience] any of the following challenges during the PIRE project? *Check all that apply.*

❑ Conflicts over authorship or credit for contributions to the research
❑ Delays in getting publications written due to the cross-cultural nature of the team
❑ Not have enough information or guidance to prepare for the foreign component of the research
❑ Bias from foreign* partners based on my nationality, gender, race, ethnicity, religion, disability or sexual orientation
❑ Delays pursuing/completing my [GRAD_DEGREE]
❑ Unexpected financial burdens
❑ Other – specify [textbox, 300]
❑ None of the above

Rollover definition:

By **foreign** partner, we mean a person **based primarily in an institution or location outside the U.S.** (regardless of his or her citizenship or country of origin). A foreign location is a place outside the 50 United States and the District of Columbia.

MODULE D: ABOUT YOU PRIOR TO THE PROJECT

D1.   In what month and year was your bachelor's degree awarded? (If you have more than one bachelor's degree, please provide the month and year in which you received your most recent bachelor's degree prior to beginning your [GRAD_DEGREE] at [GRAD_INSTITUTION].)

Month: <dropdown from January to December>
Year: <dropdown from 1990 to 2014>

Let BA_DEGREE_DATE = D1_Month, D1_Year

If PARTICIPATION_START_DATE equal to or later than AWARD_START_DATE, display version 1.
If PARTICIPATION_START_DATE earlier than AWARD_START_DATE, display version 2

Version 1:
D2.   Between [BA_DEGREE_DATE] and [PARTICIPATION_START_DATE], had you collaborated on research with someone who was based primarily at an institution **outside the U.S.**?

Version 2:
D2.   Between [BA_DEGREE_DATE] and [AWARD_START_DATE], had you collaborated on research with any someone who was based primarily at an institution **outside the U.S.**?

    ❍ Yes
    ❍ No

Version 1:

D3. Before you began participating in activities related to the [ABBREVIATED_PROJECT_NAME] project (in [PARTICIPATION_START_DATE]), did you participate in a study abroad program as a **graduate student** or spend a semester (or more) pursuing **graduate** research or education outside the United States?

Version 1:

D3. Before the official start of the [ABBREVIATED_PROJECT_NAME] project (in [AWARD_START_DATE]), did you participate in a study abroad program as a **graduate student** or spend a semester (or more) pursuing **graduate** research or education outside the United States?

❍ Yes
❍ No

D4. Have you received any of the following degrees from a college or university **outside the U.S.?**

	Yes	No
Doctoral degree or professional degree	❍	❍
Master's degree or certificate	❍	❍
Bachelor's degree (or its equivalent)	❍	❍

D5. While you were an **undergraduate**, did you participate in a study abroad program or did you spend a semester (or more) pursuing **undergraduate** research or education outside the United States?

❍ Yes
❍ No

MODULE E: CAREER OUTCOMES
Items in Module E are presented only to respondents who are not currently enrolled for a grad degree at any institution (A2=no)

E1a.   As of [NOVEMBER 15, 2014], what is the highest degree you have <u>completed</u>? *Mark one response.*

- ◯ Bachelor's degree
- ◯ Post-baccalaureate certificate (e.g., teaching certificate)
- ◯ Master's degree
- ◯ Doctoral degree (PhD, EdD)
    - ◯ Professional degree (chiropractic, dentistry, law, medicine, optometry, osteopathic medicine, pharmacy, podiatry, ministry or divinity, or veterinary medicine)

Let HIGHEST_DEGREE = response selected

E1b.   In what month and year did you receive your [HIGHEST_DEGREE]? If you completed more than one [HIGHEST_DEGREE], please enter the year that you received your most recent [HIGHEST_DEGREE].

Month: <dropdown from January to December>
        Year: <dropdown from AWARD_YEAR to 2014>

If HIGHEST_DEGREE=PhD/EdD (E1a=Doctoral Degree), go to E1c. If HIGHEST_DEGREE is not a doctoral degree, skip to E2.

E1c is shown only if respondent's HIGHEST_DEGREE = PhD (E1a=Doctoral degree)

E1c.   After completing your [HIGHEST_DEGREE], did you ever hold any postdoctoral appointments?

◯ Yes
◯ No

If E1c=No, skip to E2. If E1c=yes, go to E1d.

E1d. Have you ever held any postdoctoral appointments **outside the U.S.**?

❍ Yes
❍ No

E2. Were you working for pay or profit, during the week of [NOVEMBER 15, 2014]? Work includes being self-employed, on a postdoctoral appointment, or on any type of paid or unpaid leave, including vacation.

❍ Yes
❍ No

These items refer to the **principal job** you held during the week of [NOVEMBER 15, 2014].

E3. Did your duties on this job require the technical expertise of a bachelor's degree or higher in:

	Yes	No
Engineering, computer science, math or the natural sciences	❍	❍
The social sciences	❍	❍
Some other field (e.g. health, business, or education)	❍	❍

E4.　Was this job a "postdoc"? (A "postdoc" is temporary position awarded in academe, industry, a non-profit organization, or government primarily for gaining additional education and training in research.)

       ❍ Yes
       ❍ No

E5.　Was your principal employer during the week of [NOVEMBER 15, 2014] an educational institution?

❍ Yes
❍ No

E5a.　Was the educational institution where you worked a . . .

       ❍ Preschool, elementary, middle, or secondary school or system
       ❍ Two-year college, community college or technical institute
       ❍ Four-year college or university, other than a medical school
       ❍ Medical school (including university-affiliated hospital or medical center)
       ❍ University-affiliated research institute
       ❍ Other educational institution [please specify]: [textbox, 150]

E5b.   During the week of [NOVEMBER 15, 2014] what was your faculty rank?

❍ Not applicable: no ranks designated at this institution
❍ Not applicable: no ranks designated for my position
❍ Professor/Full Professor
❍ Associate Professor
❍ Assistant Professor
❍ Instructor
❍ Lecturer
❍ Other: [textbox, 75]

E5c.   What was your tenure status?

❍ Not applicable: no tenure system at this institution
❍ Not applicable: no tenure system for my position
❍ Tenured → Year Tenured [textbox]
❍ On tenure track but not tenured
❍ Not on tenure track

E6   Have your experiences with the [ABBREVIATED_PROJECT_NAME] project resulted in any of the following career outcomes? *Check yes or no in each row*.

Yes	No	**This postdoctoral appointment:**
❍	❍	Helped me receive a full-time position that was my top choice.
❍	❍	Helped me win grant funding to support my research

E7. Would you recommend or not recommend to other graduate students that they participate in international research or educational activities?

❍ Strongly recommend
❍ Recommend
❍ Recommend with reservations
❍ Not recommend

E7a. Why would you [strongly recommend/recommend/recommend but with reservations/not recommend] that other graduate students participate in international research or educational activities?

Textbox 3500

MODULE F: DEMOGRAPHIC INFORMATION

We'd like to remind you that information collected in this survey will be reported only in summary form. We will not provide individual information about you that could be linked to your identity to the National Science Foundation, any other government agency, business, or persons outside the research team.

F1.   Did you ever attend elementary or secondary school outside the United States? (If you ever attended elementary or secondary school in Puerto Rico, American Samoa, Guam, Micronesia, the Marshall Islands, the Northern Mariana Islands, Palau, or the Virgin Islands, please answer YES)

○ Yes
○ No

F2.   When you were growing up, was English the language you spoke most often at home?

○ Yes
○ No

F3.   What is your gender?

○ Female
○ Male

F4. What is your ethnicity? *Check one only.*

❍ Hispanic or Latino
❍ Not Hispanic or Latino

F5. What is your race? *Check one or more.*

❏ American Indian or Alaska native
❏ Asian
❏ Black or African American
❏ Native Hawaiian or other Pacific Islander
❏ White

F6. Were you born in the United States?

❍ Yes
❍ No

If F6=Yes, go to F7 (usual degree of difficulty with seeing, hearing, walking, lifting?)
If F6=No, go to F6a

F6a. Are you a U.S. citizen?

❍ U.S. citizen
❍ Permanent resident ("green card")
❍ Student visa or exchange visitor visa (F1 or F2, J1 or J2 visa)
❍ Other temporary visa (e.g., H-1B, K, L, O or other visa)

Go to F7 (usual degree of difficulty with seeing, hearing, walking, lifting?)

The next question is designed to help us better understand the career paths of individuals with different physical disabilities:

F7.

What is the USUAL degree of difficulty you have with: *Mark one answer for each item.*

		None	Slight	Moderate	Severe	Unable to do
1	SEEING words or letters in ordinary newsprint (with glasses/contact lenses, if you usually wear them)	$\square_1$	$\square_2$	$\square_3$	$\square_4$	$\square_5$
2	HEARING what is normally said in conversation with another person (with hearing aid, if you usually wear one)	$\square_1$	$\square_2$	$\square_3$	$\square_4$	$\square_5$
3	WALKING without human or mechanical assistance or using stairs	$\square_1$	$\square_2$	$\square_3$	$\square_4$	$\square_5$
4	LIFTING or carrying something as heavy as 10 pounds, such as a bag of groceries	$\square_1$	$\square_2$	$\square_3$	$\square_4$	$\square_5$

F7a.   What is the earliest age at which you first began experiencing any difficulties in any of these areas?

☐ Since birth; or Enter age in years: _____valid data range is 0 to 99 years

CONCLUSION

Thank you! Your responses are very important to the National Science Foundation in understanding the research and career outcomes of NSF program participants. We appreciate the time you have taken to complete the survey. Your responses will be used to improve NSF programs and to provide a better understanding of support for talented STEM faculty, postdoctoral fellows, and graduate students.

The survey is now complete. You may close your internet browser or click Exit. <EXIT >

If you would like to send NSF any comments about the survey please contact:
Suzanne Plimpton at NSF (splimpto@nsf.gov) and include the OMB Control No. = xxxx-xxxx

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EXIT SCREEN
If we have identified the wrong respondent or have erroneous information, display this screen and FLAG this respondent for Abt follow-up (weekly basis)

Please accept our apology.
The information you supplied suggests that you are not eligible to participate in this study **or** that we have reached you in error. We regret any inconvenience to you. If you have any questions about this study or you would like to make a comment, please contact one of the following individuals and include the OMB Control No. = xxxx-xxxx:
- Dr. Carter Epstein, Study Director at Abt Associates: 1-800-XXX-XXXX or PIRE_Study@abtassoc.com
- John Tsapogas, PIRE Program Evaluation Officer at the National Science Foundation: jtsapoga@nsf.gov
- Suzanne Plimpton at NSF (splimpto@**nsf**.gov)

May we have permission to contact you by email in order to clarify your responses here? Answering "yes" does not obligate you to answer any questions.
- ❑ 1=Yes, you may contact me. My preferred email address is: [textbox 150]
  - ❑ 0=No, please do not contact me to clarify.

Thank you very much.