

**Appendix A: Trainee Survey**

## **Appendix A**

### **IGERT Trainee Survey**

#### Note to reviewers

- Programming instructions are indicated in **blue** text.
- Text in **green** denotes the source for a particular survey question.
- This survey will be programmed for on-line administration. The formatting of items may appear differently on-line.

[IGERT trainee welcome page]

## The Integrative Graduate Education Research and Traineeship (IGERT) Trainee Survey

*Sponsored by the National Science Foundation*

*Conducted by Abt Associates Inc.*

This survey is being conducted by Abt Associates Inc. for the National Science Foundation (NSF), to learn how the Integrative Graduate Education Research and Traineeship (IGERT) projects prepare students to work as interdisciplinary researchers.

You are receiving this survey because you have received/are receiving funding from NSF's IGERT program.

### **Confidentiality and Participation**

Participation in the survey is voluntary and non participation will have no impact on you or your institution. You may skip questions on the survey or discontinue participation at any time. There is minimal risk of breach of confidentiality. Procedures are in place to minimize this risk. All information that would permit identification of an individual respondent will be held in strict confidence, will be used by persons engaged in and for the purpose of the survey, and will not be disclosed or released to others for any purpose except as required by law. You will not be identified by name, and information from the study will be reported only in the aggregate at the project level. Your answers will have no bearing on your current NSF funding or on future applications to NSF for funding/grants.

If you have questions about the study, please contact the study project director, Dr. Beth Gamse of Abt Associates Inc. at (617) 349-2808 or email her at [Beth\\_Gamse@abtassoc.com](mailto:Beth_Gamse@abtassoc.com).

### **Completing the Survey**

Please use the survey's navigation buttons (not your browser buttons) to move through the questionnaire. You may exit the survey by closing your browser window and returning to the survey to finish at a later time; simply click the link below and you will return to the point where you left off.

We estimate that it will take approximately 30 minutes to complete the survey. If you need help accessing the survey or navigating the screens, you may send an email to <[insert technical support email address](#)>. Or, call us toll-free at <[insert technical support telephone number](#)> between 9:00 a.m. and 9:00 p.m. EDT, and ask to speak to someone about the IGERT study.

### **Consent**

Please continue with the survey if you agree to participate in this study.

Click [here](#) to begin the survey.

## SECTION A: YOUR CURRENT DEGREE PROGRAM

The first few questions are about your current status in your degree program.

A1 As of <insert reference date>, have you graduated from your doctoral degree program? *Check one response*

<sub>1</sub> Yes

<sub>2</sub> No

A2 Were you enrolled in your doctoral degree program during the 2010-2011 academic year? *Check one response*

<sub>1</sub> Yes

<sub>2</sub> No

[Programming note: If A2=No (2) then end survey and present with text: "Thank you. This survey is intended for individuals who were enrolled during the 2010-11 academic year."]

## SECTION B: CONDUCTING INTERDISCIPLINARY RESEARCH

The next set of questions asks about conducting interdisciplinary research as characterized by certain types of knowledge, skills and abilities and how important each one is to conducting research.

B1 To conduct interdisciplinary research, how important is it for someone to have *depth of knowledge in one discipline or field of study*?

Not at all important	Somewhat important	Important	Very important
<input type="checkbox"/> <sub>0</sub>	<input type="checkbox"/> <sub>1</sub>	<input type="checkbox"/> <sub>2</sub>	<input type="checkbox"/> <sub>3</sub>

B2 How important is it for someone to have the *ability to recognize the strengths and weaknesses of multiple disciplines* to conduct

- research in a single discipline or field of study?
- interdisciplinary research?

	The ability to recognize the strengths and weaknesses of multiple disciplines			
To conduct ...	Not at all important	Somewhat important	Important	Very important
a. Research in a single discipline or field of study	<input type="checkbox"/> <sub>0</sub>	<input type="checkbox"/> <sub>1</sub>	<input type="checkbox"/> <sub>2</sub>	<input type="checkbox"/> <sub>3</sub>
b. Interdisciplinary research	<input type="checkbox"/> <sub>0</sub>	<input type="checkbox"/> <sub>1</sub>	<input type="checkbox"/> <sub>2</sub>	<input type="checkbox"/> <sub>3</sub>

B3 How important is it for someone to have the *ability to apply the approaches and tools from multiple disciplines to address a research question* to conduct

- research in a single discipline or field of study?
- interdisciplinary research?

	The ability to apply the approaches and tools from multiple disciplines to address a research question			
To conduct ...	Not at all important	Somewhat important	Important	Very important
a. Research in a single discipline or field of study	<input type="checkbox"/> <sub>0</sub>	<input type="checkbox"/> <sub>1</sub>	<input type="checkbox"/> <sub>2</sub>	<input type="checkbox"/> <sub>3</sub>
b. Interdisciplinary research	<input type="checkbox"/> <sub>0</sub>	<input type="checkbox"/> <sub>1</sub>	<input type="checkbox"/> <sub>2</sub>	<input type="checkbox"/> <sub>3</sub>

B4 How important is it for someone to have the *ability to work in a team with individuals trained in different disciplines* to conduct

- research in a single discipline or field of study?
- interdisciplinary research?

	The ability to work in a team with individuals trained in different disciplines			
To conduct ...	Not at all important	Somewhat important	Important	Very important
a. Research in a single discipline or field of study	<input type="checkbox"/> <sub>0</sub>	<input type="checkbox"/> <sub>1</sub>	<input type="checkbox"/> <sub>2</sub>	<input type="checkbox"/> <sub>3</sub>
b. Interdisciplinary research	<input type="checkbox"/> <sub>0</sub>	<input type="checkbox"/> <sub>1</sub>	<input type="checkbox"/> <sub>2</sub>	<input type="checkbox"/> <sub>3</sub>

B5 How important is it for someone to have the *ability to communicate research based in one discipline or field of study to academic researchers trained in different disciplines* to conduct

- research in a single discipline or field of study?
- interdisciplinary research?

	The ability to communicate research based in one discipline or field of study to academic researchers trained in different disciplines			
To conduct ...	Not at all important	Somewhat important	Important	Very important
a. Research in a single discipline or field of study	<input type="checkbox"/> <sub>0</sub>	<input type="checkbox"/> <sub>1</sub>	<input type="checkbox"/> <sub>2</sub>	<input type="checkbox"/> <sub>3</sub>
b. Interdisciplinary research	<input type="checkbox"/> <sub>0</sub>	<input type="checkbox"/> <sub>1</sub>	<input type="checkbox"/> <sub>2</sub>	<input type="checkbox"/> <sub>3</sub>

B6 How important is it for someone to have the *ability to communicate about interdisciplinary research to non-academic audiences (laypersons)* to conduct

- research in a single discipline or field of study?
- interdisciplinary research?

	The ability to communicate about interdisciplinary research to non-academic audiences (laypersons)			
To conduct ...	Not at all important	Somewhat important	Important	Very important
a. Research in a single discipline or field of study	<input type="checkbox"/> <sub>0</sub>	<input type="checkbox"/> <sub>1</sub>	<input type="checkbox"/> <sub>2</sub>	<input type="checkbox"/> <sub>3</sub>
b. Interdisciplinary research	<input type="checkbox"/> <sub>0</sub>	<input type="checkbox"/> <sub>1</sub>	<input type="checkbox"/> <sub>2</sub>	<input type="checkbox"/> <sub>3</sub>

B7 In addition to the types of knowledge, skills and abilities that you have identified as important in the previous questions, what other knowledge, skills, or abilities are important for conducting interdisciplinary research?

If none, please check here:  NONE

[Textbox, 1,000 characters]

B8 As of <insert reference date>, how confident are you about your knowledge, skills or abilities in the following areas? *Check one response per row*

	Not at all confident	Somewhat confident	Confident	Very Confident
a. Depth of knowledge in one discipline or field of study	<input type="checkbox"/> <sub>0</sub>	<input type="checkbox"/> <sub>1</sub>	<input type="checkbox"/> <sub>2</sub>	<input type="checkbox"/> <sub>3</sub>
b. Ability to recognize the strengths and weaknesses of multiple disciplines	<input type="checkbox"/> <sub>0</sub>	<input type="checkbox"/> <sub>1</sub>	<input type="checkbox"/> <sub>2</sub>	<input type="checkbox"/> <sub>3</sub>
c. Ability to apply the approaches and tools from multiple disciplines to address a research question	<input type="checkbox"/> <sub>0</sub>	<input type="checkbox"/> <sub>1</sub>	<input type="checkbox"/> <sub>2</sub>	<input type="checkbox"/> <sub>3</sub>
d. Ability to work in a team with individuals trained in different disciplines	<input type="checkbox"/> <sub>0</sub>	<input type="checkbox"/> <sub>1</sub>	<input type="checkbox"/> <sub>2</sub>	<input type="checkbox"/> <sub>3</sub>
e. Ability to communicate research based in one discipline or field of study to <b>academic researchers trained in different disciplines</b>	<input type="checkbox"/> <sub>0</sub>	<input type="checkbox"/> <sub>1</sub>	<input type="checkbox"/> <sub>2</sub>	<input type="checkbox"/> <sub>3</sub>
f. Ability to communicate about interdisciplinary research to <b>non-academic audiences (laypersons)</b>	<input type="checkbox"/> <sub>0</sub>	<input type="checkbox"/> <sub>1</sub>	<input type="checkbox"/> <sub>2</sub>	<input type="checkbox"/> <sub>3</sub>

### SECTION C: YOUR IGERT TRAINING

The next set of questions focuses on your IGERT training and whether it has helped you to develop and/or enhance your knowledge, skills or abilities in different areas as well as your overall capacity to conduct interdisciplinary research.

C1 Have you participated in any of the following IGERT training activities? *Check one response per row*

IGERT activities	Yes	No
a. Courses/seminars in multiple disciplines	<input type="checkbox"/> <sub>1</sub>	<input type="checkbox"/> <sub>2</sub>
b. Interdisciplinary courses/seminars that covered topics related to your IGERT theme	<input type="checkbox"/> <sub>1</sub>	<input type="checkbox"/> <sub>2</sub>
c. Journal clubs or research brown bags	<input type="checkbox"/> <sub>1</sub>	<input type="checkbox"/> <sub>2</sub>
d. Hands-on laboratory and/or field experiences in disciplines related to your IGERT project	<input type="checkbox"/> <sub>1</sub>	<input type="checkbox"/> <sub>2</sub>
e. Internships in a non-academic setting (industry, business, government, etc.)	<input type="checkbox"/> <sub>1</sub>	<input type="checkbox"/> <sub>2</sub>
f. Interdisciplinary team research project	<input type="checkbox"/> <sub>1</sub>	<input type="checkbox"/> <sub>2</sub>
g. International research experiences	<input type="checkbox"/> <sub>1</sub>	<input type="checkbox"/> <sub>2</sub>
h. Mentorship from faculty from outside your home department	<input type="checkbox"/> <sub>1</sub>	<input type="checkbox"/> <sub>2</sub>
i. Outreach activities (K-12 students, the general public etc.)	<input type="checkbox"/> <sub>1</sub>	<input type="checkbox"/> <sub>2</sub>

C2 Overall, how helpful has your IGERT training been in developing the following knowledge, skills or abilities? *Check one response per row*

	Not at all helpful	Somewhat helpful	Helpful	Very helpful
a. Depth of knowledge in one discipline or field of study	<input type="checkbox"/> <sub>0</sub>	<input type="checkbox"/> <sub>1</sub>	<input type="checkbox"/> <sub>2</sub>	<input type="checkbox"/> <sub>3</sub>
b. Ability to recognize the strengths and weaknesses of multiple disciplines	<input type="checkbox"/> <sub>0</sub>	<input type="checkbox"/> <sub>1</sub>	<input type="checkbox"/> <sub>2</sub>	<input type="checkbox"/> <sub>3</sub>
c. Ability to apply the approaches and tools from multiple disciplines to address a research question	<input type="checkbox"/> <sub>0</sub>	<input type="checkbox"/> <sub>1</sub>	<input type="checkbox"/> <sub>2</sub>	<input type="checkbox"/> <sub>3</sub>
d. Ability to work in a team with individuals trained in different disciplines	<input type="checkbox"/> <sub>0</sub>	<input type="checkbox"/> <sub>1</sub>	<input type="checkbox"/> <sub>2</sub>	<input type="checkbox"/> <sub>3</sub>
e. Ability to communicate research based in one discipline or field of study to <b>academic researchers trained in different disciplines</b>	<input type="checkbox"/> <sub>0</sub>	<input type="checkbox"/> <sub>1</sub>	<input type="checkbox"/> <sub>2</sub>	<input type="checkbox"/> <sub>3</sub>
f. Ability to communicate about interdisciplinary research to <b>non-academic audiences (laypersons)</b>	<input type="checkbox"/> <sub>0</sub>	<input type="checkbox"/> <sub>1</sub>	<input type="checkbox"/> <sub>2</sub>	<input type="checkbox"/> <sub>3</sub>



C3 What other knowledge, skills or abilities has your IGERT training helped you develop?

If none, please check here:  NONE

[Textbox, 1,000 characters]

[Programming note: The next set of questions will be driven by how trainees respond to C2 – if trainees indicate that their overall IGERT training has been “helpful” or “very helpful” in developing them in the areas (C2b through C2f), they will receive a follow up question asking them to indicate how helpful specific IGERT activities have been in developing that respective area. For example, if the respondent indicates that their IGERT training was very helpful in developing their ability to recognize the strengths and weaknesses of multiple disciplines, they will receive a follow up question. Note: A follow-up question will not appear for C2a].

[Programming note: C4 will only appear if C2b=2 or 3. Present items where C1=1]

C4 Reflecting on your IGERT experience so far, how helpful have the following IGERT training activities been in terms of developing your *ability to recognize the strengths and weaknesses of multiple disciplines*? Check one response per row

IGERT activities [Items will only appear if C1=1]	Not at all helpful	Somewhat helpful	Helpful	Very helpful	Do not know
a. Courses/seminars in multiple disciplines	<input type="checkbox"/> <sub>0</sub>	<input type="checkbox"/> <sub>1</sub>	<input type="checkbox"/> <sub>2</sub>	<input type="checkbox"/> <sub>3</sub>	<input type="checkbox"/> <sub>99</sub>
b. Interdisciplinary courses/seminars that covered topics related to your IGERT theme	<input type="checkbox"/> <sub>0</sub>	<input type="checkbox"/> <sub>1</sub>	<input type="checkbox"/> <sub>2</sub>	<input type="checkbox"/> <sub>3</sub>	<input type="checkbox"/> <sub>99</sub>
c. Journal clubs or research brown bags	<input type="checkbox"/> <sub>0</sub>	<input type="checkbox"/> <sub>1</sub>	<input type="checkbox"/> <sub>2</sub>	<input type="checkbox"/> <sub>3</sub>	<input type="checkbox"/> <sub>99</sub>
d. Hands-on laboratory and/or field experiences in disciplines related to your IGERT project	<input type="checkbox"/> <sub>0</sub>	<input type="checkbox"/> <sub>1</sub>	<input type="checkbox"/> <sub>2</sub>	<input type="checkbox"/> <sub>3</sub>	<input type="checkbox"/> <sub>99</sub>
e. Internships in a non-academic setting (industry, business, government, etc.)	<input type="checkbox"/> <sub>0</sub>	<input type="checkbox"/> <sub>1</sub>	<input type="checkbox"/> <sub>2</sub>	<input type="checkbox"/> <sub>3</sub>	<input type="checkbox"/> <sub>99</sub>
f. Interdisciplinary team research project	<input type="checkbox"/> <sub>0</sub>	<input type="checkbox"/> <sub>1</sub>	<input type="checkbox"/> <sub>2</sub>	<input type="checkbox"/> <sub>3</sub>	<input type="checkbox"/> <sub>99</sub>
g. International research experiences	<input type="checkbox"/> <sub>0</sub>	<input type="checkbox"/> <sub>1</sub>	<input type="checkbox"/> <sub>2</sub>	<input type="checkbox"/> <sub>3</sub>	<input type="checkbox"/> <sub>99</sub>
h. Mentorship from faculty from outside your home department	<input type="checkbox"/> <sub>0</sub>	<input type="checkbox"/> <sub>1</sub>	<input type="checkbox"/> <sub>2</sub>	<input type="checkbox"/> <sub>3</sub>	<input type="checkbox"/> <sub>99</sub>
i. Outreach activities (K-12 students, the general public etc.)	<input type="checkbox"/> <sub>0</sub>	<input type="checkbox"/> <sub>1</sub>	<input type="checkbox"/> <sub>2</sub>	<input type="checkbox"/> <sub>3</sub>	<input type="checkbox"/> <sub>99</sub>

C4a. Are there other IGERT training activities that have been helpful or very helpful in developing *your ability to recognize the strengths and weaknesses of multiple disciplines*? If so, please describe.

If none, please check here:  NONE

[Textbox, 1,000 characters]

[Programming note: C5 will only appear if C2c=2 or 3. Present items where C1=1]

C5 Reflecting on your IGERT experience so far, how helpful have the following IGERT training activities been in terms of developing your *ability to apply the approaches and tools from multiple disciplines to address a research question*? Check one response per row

IGERT activities [Items will only appear if C1=1]	Not at all helpful	Somewhat helpful	Helpful	Very helpful	Do not know
a. Courses/seminars in multiple disciplines	<input type="checkbox"/> <sub>0</sub>	<input type="checkbox"/> <sub>1</sub>	<input type="checkbox"/> <sub>2</sub>	<input type="checkbox"/> <sub>3</sub>	<input type="checkbox"/> <sub>99</sub>
b. Interdisciplinary courses/seminars that covered topics related to your IGERT theme	<input type="checkbox"/> <sub>0</sub>	<input type="checkbox"/> <sub>1</sub>	<input type="checkbox"/> <sub>2</sub>	<input type="checkbox"/> <sub>3</sub>	<input type="checkbox"/> <sub>99</sub>
c. Journal clubs or research brown bags	<input type="checkbox"/> <sub>0</sub>	<input type="checkbox"/> <sub>1</sub>	<input type="checkbox"/> <sub>2</sub>	<input type="checkbox"/> <sub>3</sub>	<input type="checkbox"/> <sub>99</sub>
d. Hands-on laboratory and/or field experiences in disciplines related to your IGERT project	<input type="checkbox"/> <sub>0</sub>	<input type="checkbox"/> <sub>1</sub>	<input type="checkbox"/> <sub>2</sub>	<input type="checkbox"/> <sub>3</sub>	<input type="checkbox"/> <sub>99</sub>
e. Internships in a non-academic setting (industry, business, government, etc.)	<input type="checkbox"/> <sub>0</sub>	<input type="checkbox"/> <sub>1</sub>	<input type="checkbox"/> <sub>2</sub>	<input type="checkbox"/> <sub>3</sub>	<input type="checkbox"/> <sub>99</sub>
f. Interdisciplinary team research project	<input type="checkbox"/> <sub>0</sub>	<input type="checkbox"/> <sub>1</sub>	<input type="checkbox"/> <sub>2</sub>	<input type="checkbox"/> <sub>3</sub>	<input type="checkbox"/> <sub>99</sub>
g. International research experiences	<input type="checkbox"/> <sub>0</sub>	<input type="checkbox"/> <sub>1</sub>	<input type="checkbox"/> <sub>2</sub>	<input type="checkbox"/> <sub>3</sub>	<input type="checkbox"/> <sub>99</sub>
h. Mentorship from faculty from outside your home department	<input type="checkbox"/> <sub>0</sub>	<input type="checkbox"/> <sub>1</sub>	<input type="checkbox"/> <sub>2</sub>	<input type="checkbox"/> <sub>3</sub>	<input type="checkbox"/> <sub>99</sub>
i. Outreach activities (K-12 students, the general public etc.)	<input type="checkbox"/> <sub>0</sub>	<input type="checkbox"/> <sub>1</sub>	<input type="checkbox"/> <sub>2</sub>	<input type="checkbox"/> <sub>3</sub>	<input type="checkbox"/> <sub>99</sub>

C5a. Are there other IGERT training activities that have been helpful or very helpful in developing your *ability to apply the approaches and tools from multiple disciplines to address a research question*? If so, please describe.

If none, please check here:  NONE

[Textbox, 1,000 characters]

[Programming note: C6 will only appear if C2d=2 or 3. Present items where C1=1]

C6 Reflecting on your IGERT experience so far, how helpful have the following IGERT training activities been in terms of developing your *ability to work in a team with individuals trained in different disciplines*? Check one response per row

IGERT activities [Items will only appear if C1=1]	Not at all helpful	Somewhat helpful	Helpful	Very helpful	Do not know
a. Courses/seminars in multiple disciplines	<input type="checkbox"/> <sub>0</sub>	<input type="checkbox"/> <sub>1</sub>	<input type="checkbox"/> <sub>2</sub>	<input type="checkbox"/> <sub>3</sub>	<input type="checkbox"/> <sub>99</sub>
b. Interdisciplinary courses/seminars that covered topics related to your IGERT theme	<input type="checkbox"/> <sub>0</sub>	<input type="checkbox"/> <sub>1</sub>	<input type="checkbox"/> <sub>2</sub>	<input type="checkbox"/> <sub>3</sub>	<input type="checkbox"/> <sub>99</sub>
c. Journal clubs or research brown bags	<input type="checkbox"/> <sub>0</sub>	<input type="checkbox"/> <sub>1</sub>	<input type="checkbox"/> <sub>2</sub>	<input type="checkbox"/> <sub>3</sub>	<input type="checkbox"/> <sub>99</sub>
d. Hands-on laboratory and/or field experiences in disciplines related to your IGERT project	<input type="checkbox"/> <sub>0</sub>	<input type="checkbox"/> <sub>1</sub>	<input type="checkbox"/> <sub>2</sub>	<input type="checkbox"/> <sub>3</sub>	<input type="checkbox"/> <sub>99</sub>
e. Internships in a non-academic setting (industry, business, government, etc.)	<input type="checkbox"/> <sub>0</sub>	<input type="checkbox"/> <sub>1</sub>	<input type="checkbox"/> <sub>2</sub>	<input type="checkbox"/> <sub>3</sub>	<input type="checkbox"/> <sub>99</sub>
f. Interdisciplinary team research project	<input type="checkbox"/> <sub>0</sub>	<input type="checkbox"/> <sub>1</sub>	<input type="checkbox"/> <sub>2</sub>	<input type="checkbox"/> <sub>3</sub>	<input type="checkbox"/> <sub>99</sub>
g. International research experiences	<input type="checkbox"/> <sub>0</sub>	<input type="checkbox"/> <sub>1</sub>	<input type="checkbox"/> <sub>2</sub>	<input type="checkbox"/> <sub>3</sub>	<input type="checkbox"/> <sub>99</sub>
h. Mentorship from faculty from outside your home department	<input type="checkbox"/> <sub>0</sub>	<input type="checkbox"/> <sub>1</sub>	<input type="checkbox"/> <sub>2</sub>	<input type="checkbox"/> <sub>3</sub>	<input type="checkbox"/> <sub>99</sub>
i. Outreach activities (K-12 students, the general public etc.)	<input type="checkbox"/> <sub>0</sub>	<input type="checkbox"/> <sub>1</sub>	<input type="checkbox"/> <sub>2</sub>	<input type="checkbox"/> <sub>3</sub>	<input type="checkbox"/> <sub>99</sub>

C6a. Are there other IGERT training activities that have been helpful or very helpful in developing your *ability to work in a team with individuals trained in different disciplines*? If so, please describe.

If none, please check here:  NONE

[Textbox, 1,000 characters]

[Programming note: C7 will only appear if C2e=2 or 3. Present items where C1=1]

C7 Reflecting on your IGERT experience so far, how helpful have the following IGERT training activities been in terms of developing your *ability to communicate research based in one discipline or field of study to **academic researchers trained in different disciplines***? Check one response per row

IGERT activities [Items will only appear if C1=1]	Not at all helpful	Somewhat helpful	Helpful	Very helpful	Do not know
a. Courses/seminars in multiple disciplines	<input type="checkbox"/> <sub>0</sub>	<input type="checkbox"/> <sub>1</sub>	<input type="checkbox"/> <sub>2</sub>	<input type="checkbox"/> <sub>3</sub>	<input type="checkbox"/> <sub>99</sub>
b. Interdisciplinary courses/seminars that covered topics related to your IGERT theme	<input type="checkbox"/> <sub>0</sub>	<input type="checkbox"/> <sub>1</sub>	<input type="checkbox"/> <sub>2</sub>	<input type="checkbox"/> <sub>3</sub>	<input type="checkbox"/> <sub>99</sub>
c. Journal clubs or research brown bags	<input type="checkbox"/> <sub>0</sub>	<input type="checkbox"/> <sub>1</sub>	<input type="checkbox"/> <sub>2</sub>	<input type="checkbox"/> <sub>3</sub>	<input type="checkbox"/> <sub>99</sub>
d. Hands-on laboratory and/or field experiences in disciplines related to your IGERT project	<input type="checkbox"/> <sub>0</sub>	<input type="checkbox"/> <sub>1</sub>	<input type="checkbox"/> <sub>2</sub>	<input type="checkbox"/> <sub>3</sub>	<input type="checkbox"/> <sub>99</sub>
e. Internships in a non-academic setting (industry, business, government, etc.)	<input type="checkbox"/> <sub>0</sub>	<input type="checkbox"/> <sub>1</sub>	<input type="checkbox"/> <sub>2</sub>	<input type="checkbox"/> <sub>3</sub>	<input type="checkbox"/> <sub>99</sub>
f. Interdisciplinary team research project	<input type="checkbox"/> <sub>0</sub>	<input type="checkbox"/> <sub>1</sub>	<input type="checkbox"/> <sub>2</sub>	<input type="checkbox"/> <sub>3</sub>	<input type="checkbox"/> <sub>99</sub>
g. International research experiences	<input type="checkbox"/> <sub>0</sub>	<input type="checkbox"/> <sub>1</sub>	<input type="checkbox"/> <sub>2</sub>	<input type="checkbox"/> <sub>3</sub>	<input type="checkbox"/> <sub>99</sub>
h. Mentorship from faculty from outside your home department	<input type="checkbox"/> <sub>0</sub>	<input type="checkbox"/> <sub>1</sub>	<input type="checkbox"/> <sub>2</sub>	<input type="checkbox"/> <sub>3</sub>	<input type="checkbox"/> <sub>99</sub>
i. Outreach activities (K-12 students, the general public etc.)	<input type="checkbox"/> <sub>0</sub>	<input type="checkbox"/> <sub>1</sub>	<input type="checkbox"/> <sub>2</sub>	<input type="checkbox"/> <sub>3</sub>	<input type="checkbox"/> <sub>99</sub>

C7a. Are there other IGERT training activities that have been helpful or very helpful in developing your *ability to communicate research based in one discipline or field of study to **academic researchers trained in different disciplines***? If so, please describe.

If none, please check here:  NONE

[Textbox, 1,000 characters]

[Programming note: C8 will only appear if C2f=2 or 3. Present items where C1=1]

C8 Reflecting on your IGERT experience so far, how helpful have the following IGERT training activities been in terms of developing your *ability to communicate about interdisciplinary research to **non-academic audiences (laypersons)***? Check one response per row

IGERT activities [Items will only appear if C1=1]	Not at all helpful	Somewhat helpful	Helpful	Very helpful	Do not know
a. Courses/seminars in multiple disciplines	<input type="checkbox"/> _0	<input type="checkbox"/> _1	<input type="checkbox"/> _2	<input type="checkbox"/> _3	<input type="checkbox"/> _99
b. Interdisciplinary courses/seminars that covered topics related to your IGERT theme	<input type="checkbox"/> _0	<input type="checkbox"/> _1	<input type="checkbox"/> _2	<input type="checkbox"/> _3	<input type="checkbox"/> _99
c. Journal clubs or research brown bags	<input type="checkbox"/> _0	<input type="checkbox"/> _1	<input type="checkbox"/> _2	<input type="checkbox"/> _3	<input type="checkbox"/> _99
d. Hands-on laboratory and/or field experiences in disciplines related to your IGERT project	<input type="checkbox"/> _0	<input type="checkbox"/> _1	<input type="checkbox"/> _2	<input type="checkbox"/> _3	<input type="checkbox"/> _99
e. Internships in a non-academic setting (industry, business, government, etc.)	<input type="checkbox"/> _0	<input type="checkbox"/> _1	<input type="checkbox"/> _2	<input type="checkbox"/> _3	<input type="checkbox"/> _99
f. Interdisciplinary team research project	<input type="checkbox"/> _0	<input type="checkbox"/> _1	<input type="checkbox"/> _2	<input type="checkbox"/> _3	<input type="checkbox"/> _99
g. International research experiences	<input type="checkbox"/> _0	<input type="checkbox"/> _1	<input type="checkbox"/> _2	<input type="checkbox"/> _3	<input type="checkbox"/> _99
h. Mentorship from faculty from outside your home department	<input type="checkbox"/> _0	<input type="checkbox"/> _1	<input type="checkbox"/> _2	<input type="checkbox"/> _3	<input type="checkbox"/> _99
i. Outreach activities (K-12 students, the general public etc.)	<input type="checkbox"/> _0	<input type="checkbox"/> _1	<input type="checkbox"/> _2	<input type="checkbox"/> _3	<input type="checkbox"/> _99

C8a. Are there other IGERT training activities that have been helpful or very helpful in developing your *ability to communicate about interdisciplinary research to non-academic audiences (laypersons)*? If so, please describe.

If none, please check here:  NONE

[Textbox, 1,000 characters]

C9 Have you experienced any of the following as a result of your IGERT training? *Check one response per row.*

	Not at all	Somewhat	A great deal
a. Difficulty balancing demands of IGERT versus my degree program	<input type="checkbox"/> <sub>1</sub>	<input type="checkbox"/> <sub>2</sub>	<input type="checkbox"/> <sub>3</sub>
b. An increased work load	<input type="checkbox"/> <sub>1</sub>	<input type="checkbox"/> <sub>2</sub>	<input type="checkbox"/> <sub>3</sub>
c. Less opportunity than non-IGERT peers to interact with students and faculty in my primary discipline	<input type="checkbox"/> <sub>1</sub>	<input type="checkbox"/> <sub>2</sub>	<input type="checkbox"/> <sub>3</sub>
d. Less opportunity than non-IGERT peers to obtain graduate funding in my primary discipline (e.g., RA, TA, fellowship)	<input type="checkbox"/> <sub>1</sub>	<input type="checkbox"/> <sub>2</sub>	<input type="checkbox"/> <sub>3</sub>
e. Discouragement about my participation in IGERT from students or faculty in my primary discipline	<input type="checkbox"/> <sub>1</sub>	<input type="checkbox"/> <sub>2</sub>	<input type="checkbox"/> <sub>3</sub>
f. Frustration trying to communicate with students from other primary disciplines	<input type="checkbox"/> <sub>1</sub>	<input type="checkbox"/> <sub>2</sub>	<input type="checkbox"/> <sub>3</sub>

C10 What has been the most difficult or challenging aspect of participating in your IGERT training program?

[Textbox, 1,000 characters]

## SECTION D: Background Questions

The last few questions ask about the discipline(s) of your doctoral degree program and demographic characteristics.

D1 Please select the discipline(s) in which you will receive your doctoral degree.

*First, indicate which of the three broader areas in which your discipline(s) falls. If your doctoral degree is best characterized as interdisciplinary, please select up to two broad areas, if applicable.*

[Source: Adapted from the 2006 Survey of Doctoral Recipients]

*Check up to two responses*

<sub>1</sub> Sciences (e.g., Agricultural/food sciences; Biological sciences; Environmental life sciences; Computer and information sciences; Mathematics and statistics; Chemistry; Earth, atmospheric and ocean sciences; Physics; Psychology)

<sub>2</sub> Social Sciences (e.g., Economics; Political and related sciences; Sociology/Anthropology; Other Social Sciences)

<sub>3</sub> Engineering

[Programming note: If R selects one area from above, display one of three screens based on choice above

1. Sciences screen
2. Social Sciences screen
3. Engineering screen

The next three tables should each be on a separate screen.

If R selects two broad areas; display two of the three screens based on choices above.]

## Science Fields

To view other fields (Social Sciences or Engineering), please select [Go back to the 3 broad areas](#) to change your selection.

[Programming note: The blue underlined text above will function just like the “Go back to the 3 broad areas” button at the bottom of the page.]

<b>Agricultural/food sciences</b>	<input type="radio"/> Animal sciences <input type="radio"/> Food sciences/technology	<input type="radio"/> Plant sciences <input type="radio"/> OTHER agricultural sciences
<b>Biological sciences</b> <i>Bioengineering, see ENGINEERING, next page</i>	<input type="radio"/> Biochemistry/biophysics <input type="radio"/> Biology, general <input type="radio"/> Botany <input type="radio"/> Cell/molecular biology <input type="radio"/> Ecology <input type="radio"/> Genetics, animal/plant	<input type="radio"/> Microbiological sciences/immunology <input type="radio"/> Nutritional sciences <input type="radio"/> Pharmacology, human/animal <input type="radio"/> Physiology and pathology, human/animal <input type="radio"/> Zoology, general <input type="radio"/> OTHER Biological sciences
<b>Environmental life sciences</b>	<input type="radio"/> Environmental science/studies	<input type="radio"/> Forestry sciences
<b>Computer and information sciences</b> <i>For Computer Engineering, see ENGINEERING, next page</i>	<input type="radio"/> Computer/information sciences, general <input type="radio"/> Computer programming <input type="radio"/> Computer science	<input type="radio"/> Computer systems analysis <input type="radio"/> Information services/systems <input type="radio"/> OTHER computer/information sciences
<b>Mathematics and statistics</b>	<input type="radio"/> Applied mathematics <input type="radio"/> Mathematics, general <input type="radio"/> Operations research	<input type="radio"/> Statistics <input type="radio"/> OTHER mathematics
<b>Chemistry, except biochemistry</b>	<input type="radio"/> Chemistry except biochemistry ( <i>biochemistry, see Biological sciences</i> )	
<b>Earth, atmospheric, and ocean sciences</b>	<input type="radio"/> Atmospheric sciences/meteorology <input type="radio"/> Earth sciences <input type="radio"/> Geology	<input type="radio"/> Geological sciences, other <input type="radio"/> Oceanography <input type="radio"/> OTHER physical sciences
<b>Physics</b> <i>Biophysics, see Biological Sciences</i>	<input type="radio"/> Astronomy/astrophysics	<input type="radio"/> Physics
<b>Psychology</b>	<input type="radio"/> Clinical psychology <input type="radio"/> Counseling <input type="radio"/> Educational psychology <input type="radio"/> Experimental psychology	<input type="radio"/> General psychology <input type="radio"/> Industrial/organizational psychology <input type="radio"/> Social psychology <input type="radio"/> OTHER psychology

[NEXT ITEM](#)  
[GO BACK TO THE 3 BROAD AREAS](#)



## Social Sciences

To view other fields (Sciences or Engineering), please select [Go back to the 3 broad areas](#) to change your selection.

[Programming note: The blue underlined text above will function just like the “Go back to the 3 broad areas” button at the bottom of the page.]

<b>Economics</b>	<input type="radio"/> Agricultural economics	<input type="radio"/> Economics
<b>Political and related sciences</b>	<input type="radio"/> International relations <input type="radio"/> Political science/government	<input type="radio"/> Public policy studies
<b>Sociology/Anthropology</b>	<input type="radio"/> Anthropology/archaeology <input type="radio"/> Criminology	<input type="radio"/> Sociology
<b>OTHER social sciences</b>	<input type="radio"/> Area/ethnic studies <input type="radio"/> Education, general <input type="radio"/> Geography <input type="radio"/> History of science	<input type="radio"/> Linguistics <input type="radio"/> Philosophy of science <input type="radio"/> OTHER social sciences

[NEXT ITEM](#)  
[GO BACK TO THE 3 BROAD AREAS](#)

## Engineering Fields

To view other fields (Sciences or Social Science), please select [Go back to the 3 broad areas](#) to change your selection.

[Programming note: The blue underlined text above will function just like the “Go back to the 3 broad areas” button at the bottom of the page.]

<b>Biochemical engineering</b> , <i>see Bioengineering/biomedical under OTHER Engineering</i>	
<b>Chemical engineering</b>	<input type="radio"/> Chemical engineering
<b>Civil/architectural eng.</b>	<input type="radio"/> Architectural engineering <input type="radio"/> Civil engineering
<b>Electrical/computer engineering</b>	<input type="radio"/> Computer/systems engineering <input type="radio"/> Electrical/electronics/communications engineering
<b>Industrial engineering</b>	<input type="radio"/> Industrial/manufacturing engineering
<b>Mechanical engineering</b>	<input type="radio"/> Mechanical engineering
<b>OTHER engineering</b>	<input type="radio"/> Aerospace/aeronautical/astronautical engineering <input type="radio"/> Geophysical/geological engineering <input type="radio"/> Agricultural engineering <input type="radio"/> Materials engineering, including ceramics/textiles <input type="radio"/> Bioengineering/biomedical engineering <input type="radio"/> Metallurgical engineering <input type="radio"/> Engineering, general <input type="radio"/> Mining/minerals engineering <input type="radio"/> Engineering sciences/mechanics/physics <input type="radio"/> Naval architecture/marine engineering <input type="radio"/> Environmental engineering <input type="radio"/> Nuclear engineering <input type="radio"/> <input type="radio"/> Petroleum engineering <input type="radio"/> <input type="radio"/> OTHER engineering

[NEXT ITEM](#)  
[GO BACK TO THE 3 BROAD AREAS](#)

*Providing data on gender, race and ethnicity is entirely voluntary, however, providing this information is helpful to this study. This information will be reported only in the aggregate.*

D2 Are you.....

[Source: Adapted from the 2006 Survey of Doctoral Recipients]

- <sub>1</sub> Male  
<sub>2</sub> Female

D3 Are you Hispanic or Latino?

[Source: Adapted from the 2006 Survey of Doctoral Recipients]

- <sub>1</sub> Yes  
<sub>2</sub> No

D4 What is your racial background? [Source: Adapted from the 2006 Survey of Doctoral Recipients]  
*Check one or more.*

- <sub>1</sub> American Indian or Alaska Native
- <sub>2</sub> Native Hawaiian or other Pacific Islander
- <sub>3</sub> Asian
- <sub>4</sub> Black or African-American
- <sub>5</sub> White

## SECTION E: RECOMMENDATIONS

E1 If you have any other comments—about this study, your IGERT experience, or suggestions to increase students’ preparedness for interdisciplinary research—please note them below.

[Textbox, 1,000 characters]

*On behalf of the National Science Foundation and the IGERT program, thank you for taking the time to complete this survey!*

Click here to submit your responses: [SUBMIT](#)