

IGERT SURVEY

Programming notes are in blue...

- There will be a variable created from the sample file that determines if a respondent is IGERT or not. Throughout the survey where there are “IGERT only” questions, we use the variable name “IGERT” to identify that a question should be given only to the IGERT respondents.
- All section headings are for internal use only and should not appear on the screens. Survey respondents should not see section headings
- Do not include question numbers on the screen (this is b/c we don’t want to confuse respondents who skip sections).
- Response choices that are all numbered with one are to allow the respondent to choose more than one answer to the question. Response choices that are numbered sequentially are where the respondent is to choose only one answer to the question
- Analysis notes in green are for internal reference only and should not appear on screen or paper versions.

Section A: Decision To Pursue a Career in STEM

We would like to begin by asking you a few questions about your decision to pursue a scientific career.

A1. In deciding to pursue a scientific career, which of the following factors were most important to you? *(Please select up to three responses from the list below)*

<i>Choose up to three:</i>	
<input type="checkbox"/>	1 Salary/Benefits
<input type="checkbox"/>	1 Job security
<input type="checkbox"/>	1 Opportunities for advancement
<input type="checkbox"/>	1 Intellectual challenge
<input type="checkbox"/>	1 Level of responsibility
<input type="checkbox"/>	1 Degree of independence
The opportunity to....	
<input type="checkbox"/>	1 Create new knowledge/make decisions
<input type="checkbox"/>	1 Contribute to society
<input type="checkbox"/>	1 Follow my passion
<input type="checkbox"/>	1 Learn new skills
<input type="checkbox"/>	1 Other _____
[Source: SDR C10– modified]	

A2. Which of the following were factors in your decision to pursue a graduate degree in science, technology, engineering or mathematics? In the left hand column, *check all that apply*, and in the right hand column, *check the one most important factor*.

All factors (Check all that apply)		Most important factor (Choose one)
<input type="checkbox"/> ₁	Needed a doctorate to advance in a career in my field of study	<input type="checkbox"/> ₁
<input type="checkbox"/> ₁	Wanted to change my field of study	<input type="checkbox"/> ₂
<input type="checkbox"/> ₁	Wanted to increase my knowledge in my field of study	<input type="checkbox"/> ₃
<input type="checkbox"/> ₁	Wanted to earn more money, and expect my earnings will increase with a doctorate	<input type="checkbox"/> ₄
<input type="checkbox"/> ₁	Prestige of an advanced degree	<input type="checkbox"/> ₅
<input type="checkbox"/> ₁	Could not find a job, so I decided to go back to school	<input type="checkbox"/> ₆
<input type="checkbox"/> ₁	Other, specify _____	<input type="checkbox"/> ₇
[Analysis note: Source: 3ML A-11-modified (responses added)]		

A3. When you were applying to graduate programs, what types of programs did you consider? (Check only one)

- ₁ Discipline-based programs only
- ₂ Interdisciplinary programs only
- ₃ Discipline-based and interdisciplinary programs

[Programming note: If respondent IGERT respondent then continue to question A4; Non IGERT respondents, skip to Section B: “Graduate School Experience”]

[Programming note: For IGERT only—This question is OPTIONAL]

A4. Why were you interested in interdisciplinary graduate programs?

[TEXTBOX]

[Programming note: Continue to question A6]

[Programming note: For IGERT only]

A5. If your IGERT program had not existed, would you still have gone to graduate school?

				N/A – I did not know about IGERT until after I was enrolled
Definitely not	Probably not	Probably	Definitely	
<input type="checkbox"/> _1	<input type="checkbox"/> _2	<input type="checkbox"/> _3	<input type="checkbox"/> _4	<input type="checkbox"/> _5

[Programming note: Go to Section B: “Graduate School Experience”]

Section B: Graduate School Experience

In this section we would like you to answer a few questions about your graduate school experience.

[Programming note: Institution Name in the following questions should be filled into question stems from sample file.]

B1. In what month and year did you originally ENROLL in your graduate program at [Institution Name]?

____ / ____ ____ ____ (MM/YYYY)

B2. Were you initially enrolled in a masters program or a PhD program at [Institution Name]?

₁ Master's program

₂ PhD program

B3. Did you have a Master's degree prior to enrolling in your graduate program at [Institution Name]?

₁ Yes

₂ No

B4. Did you earn a graduate degree from [Institution Name]? (Check all that apply)

₁ Ph.D.

₂ Master's

₃ Other, specify _____

₄ I did not complete a degree

[Programming note:

If respondent answered 1 then continue to question B5;

If respondent answered 2, then skip to question B6;

If respondent answered 3, then skip to question B6

If respondent answered 4, then skip to question B8]

[Programming note: If question B4=1 only]

B5. In what month and year did you earn your doctoral degree from [Institution Name]?
___ ___ / ___ ___ ___ ___ (MM/YYYY)

[Programming note: Skip to question B10]

[Programming note: If question B4= 2 or 3 only]

B6. In what month and year did you earn your Master's degree from [Institution Name]?
___ ___ / ___ ___ ___ ___ (MM/YYYY)

[Continue to question B7]

[Programming note: If question B4= 2 or 3 only]

B7. Have you subsequently pursued additional education?

₁ Yes, completed. Please specify degree(s) earned _____

₂ Yes, still enrolled

₃ No

[Programming note: [Skip to question B11]

[Programming note: If question B4= 4 only]

B8. In what month and year did you leave [Institution Name]?
___ ___ / ___ ___ ___ ___ (MM/YYYY)

[Continue to question B9]

[Programming note: If question B4=4 only]

B9. Have you subsequently pursued additional education?

₁ Yes, completed. Please specify degree(s) earned _____

₂ Yes, still enrolled

₃ No

[Programming note: Skip to question B11]

[Programming note: If question B4=1 only]

B10. From the list of disciplines below, please select those you drew upon in your dissertation research. *(Check all that apply)*

- Agricultural Sciences/Natural Resources
- Biological/Biomedical Sciences
- Health Sciences
- Engineering
- Computer and Information Sciences
- Mathematics
- Astronomy
- Atmospheric Science and Meteorology
- Chemistry
- Geological and Earth Sciences
- Physics
- Ocean/ Marine Sciences
- Psychology
- Social Sciences
- Humanities
- Education
- Professional Fields/Business Management/Administration
- Other

[Analysis note: Source: SDR A22, slightly modified]

[Programming note: For each response item checked above, respondent will receive a follow up question with sub-fields. See APPENDIX for sub-questions and an example].

[Programming note: If IGERT respondent, skip to question B12. Otherwise, go to section C “Entering the Workforce”]

[Programming note: If question B4=2, 3, or 4 only]

B11. Which of the following discipline(s) listed below are most closely aligned with what you studied during your graduate education at **[Institution Name]**? *(Check all that apply)*

- Agricultural Sciences/Natural Resources
- Biological/Biomedical Sciences
- Health Sciences
- Engineering
- Computer and Information Sciences
- Mathematics
- Astronomy
- Atmospheric Science and Meteorology
- Chemistry
- Geological and Earth Sciences
- Physics
- Ocean/ Marine Sciences
- Psychology
- Social Sciences
- Humanities
- Education
- Professional Fields/Business Management/Administration
- Other

[Analysis note: Source: SDR A22, slightly modified]

[Programming note: Format is same as question B10. For each response item checked above, respondent will receive a follow up question with sub-disciplines. See APPENDIX for sub questions]

[Programming note: If IGERT respondent, continue to question B12. Otherwise, go to Section C “Entering the Workforce”]

[Programming note: If IGERT respondent]

B12. On the following scale from 1 to 5, to what extent did your IGERT experience contribute to your ability to complete your degree?

Not at all 1...	A little ...2...	To some extent ...3...	Quite a bit ...4...	A great deal ...5...
<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4	<input type="checkbox"/> 5

[Programming note: Go to Section C: “Entering the Work Force”]

Section C: Entering the Work Force

Thank you. We would next like to ask you a few questions about your experience entering the work force.

C1. What was your job situation at the time you left [Institution Name]?

- ₁ I was not looking for work
- ₂ I was looking for work, but did not have an offer
- ₃ I had an offer
- ₄ I was already working
- ₅ Other, specify _____

[Programming note: If respondent answered 1 then skip to question C3; else continue to question C2]

[Programming note: If C1=2, 3, 4, or 5]

C2. How many months did you spend actively looking for employment before accepting your first paid position (including postdoctoral positions)?

_____ months

[Analysis note: Source: APA#22, slightly modified]

[Programming note: All respondents answer this question]

C3. Are you currently working for salary or wages?

- ₁ Yes, in a part-time position
- ₂ Yes, in a full-time position
- ₃ No

[Analysis note: Source: SDR A1, modified]

[Programming note: If respondent answered 3 then skip to Section O: “Unemployed”; Else, continue to question C4]

[Programming note: If question C3=1 or 2]

C4. Is your current position a postdoctoral appointment or fellowship?

₁ Yes

₂ No

[Continue to question C5]

C5. To what extent do you agree with the following statements regarding the role of your graduate program in obtaining a position in the workforce? (Check one response in each row)

<i>As a result of my graduate program:</i>	Disagree	Somewhat disagree	Somewhat agree	Agree	I don't know
I was at a competitive advantage compared to graduates of other institutions when applying for positions	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄	<input type="checkbox"/> ₅
I felt prepared for a broad range of careers	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄	<input type="checkbox"/> ₅

[Programming note: If IGERT respondent, continue to question C6; Non IGERT respondents skip to question C7]

[Programming note: IGERT only]

C6. On the following scale of 1 to 5, to what extent did your IGERT experience contribute to your ability to obtain a position in the workforce?

Not at all 1...	A little ...2...	To some extent ...3...	Quite a bit ...4...	A great deal ...5...
<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4	<input type="checkbox"/> 5

[Programming note: Continue to question C7]

C7. After leaving graduate school, which of the following employment sectors did you consider for your first position in the workforce (including postdoctoral positions)? In the left hand column, *check all that apply*, and in the right hand column, *check which one sector in which you most desired to work*.

All that you considered (Check all that apply)		Most desired (Choose one)
<input type="checkbox"/> 1	Government	<input type="checkbox"/> 1
<input type="checkbox"/> 1	Industry/Business	<input type="checkbox"/> 2
<input type="checkbox"/> 1	Educational Institution (College, university or K-12)	<input type="checkbox"/> 3
<input type="checkbox"/> 1	Nonprofit	<input type="checkbox"/> 4
<input type="checkbox"/> 1	Entrepreneur/Self-employed	<input type="checkbox"/> 5

Analysis note: Can map categories (with some modifications) to SED B5, SDR A15.

[Programming note: Continue to question C8]

C8. Which of the following factors were most important to you in choosing your current position in the workforce? (Please select up to three responses from the list below)

choose up to three:	
<input type="checkbox"/>	1 Salary/Benefits
<input type="checkbox"/>	1 Job security
<input type="checkbox"/>	1 Opportunities for advancement
<input type="checkbox"/>	1 Intellectual challenge
<input type="checkbox"/>	1 Level of responsibility
<input type="checkbox"/>	1 Degree of independence
The opportunity to....	
<input type="checkbox"/>	1 Create new knowledge/make decisions
<input type="checkbox"/>	1 Contribute to society
<input type="checkbox"/>	1 Follow my passion
<input type="checkbox"/>	1 Learn new skills
<input type="checkbox"/>	1 Other _____
[Source: SDR C10– modified]	

[Programming note: Continue to question C9]

Thank you. Now we would like to ask you a few questions about your current position.

C9. Which of the following best describes your principal employer?

- 1 Government
- 2 Industry/Business
- 3 Educational Institution (non-government college, university, or K-12)
- 4 Nonprofit
- 5 Entrepreneur/Self-employed

Analysis note: Can map categories (with some modifications) to SED B5, SDR A15.

[Programming note:

If respondent answered 1, then go to Section E: “Government”;

If respondent answered 2, then go to Section D: “Business/Industry”;

If respondent answered 3, then go to Section F: “Education”;

If respondent answered 4, then go to Section G: “Nonprofit”;

If respondent answered 5, then go to Section H: “Entrepreneur/Self-Employed”]

Section D: Business/Industry

[Programming note: Respondents sent here if question C10=2 only]

D1. Please select the sector below which most closely aligns with your area of professional concentration.

Goods-Producing

- ₁ Agriculture, forestry, fishing and hunting
- ₁ Mining
- ₁ Construction
- Manufacturing:
 - ₁ Food, beverage, and tobacco products
 - ₁ Textiles and apparel
 - ₁ Wood products, paper products, printing
 - ₁ Energy/Fuels
 - ₁ Chemical products (basic/specialty; polymers/plastics; consumer products)
 - ₁ Pharmaceutical
 - ₁ Biotechnological products
 - ₁ Mineral and metals products
 - ₁ Computer and electronic products
 - ₁ Electrical equipment, appliance, and components
 - ₁ Transportation
 - ₁ Other manufacturing

Service-Providing

- ₁ Information, communications, media services
- ₁ Finance and banking services
- ₁ Professional, scientific, and business services
- ₁ Education services
- ₁ Health and healthcare-related services
- ₁ Leisure and hospitality services
- ₁ Public administration
- ₁ Other services

D2. Did your employer come into being as a new business within the past 5 years?

- ₁ Yes
- ₂ No

[Analysis note: Source: SDR A14]

D3. What is your job title?

[TEXTBOX]

D4. What is the name of the company for which you work?

[TEXTBOX]

D5. Which of the following best describes your position?

- ₁ First line Supervisor, Administrator, Manager (e.g. Director, Department/Division head)
- ₂ Individual Contributor/Program or Project Leader (e.g., Researcher, Scientist, Fellow)
- ₃ Other- (please specify) _____

**D6. Do you regularly engage in any of the following activities as part of your current job?
(Check all that apply)**

- ₁ Direct or participate in developing and/or implementing the vision and strategic direction of the organization
- ₁ Play a significant role in the development, implementation, and execution of policies, procedures, and standards
- ₁ Develop or direct the technical or scientific agenda of the organization
- ₁ Delegate responsibilities and assignments
- ₁ Develop and oversee budget and/or profit and loss statements
- ₁ None of the above

D7. In the left column, please indicate which of the following (if any) you regularly engage in as part of your current job.

In the right column, please indicate how well your graduate program prepared you in each area.

Regularly engage in			How well your graduate program prepared you		
Yes	No		Not Well	Well	Very Well
<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	Publish research/technical findings/reports	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃
<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	Balance the demands of multiple projects	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃
<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	Develop my own technical or scientific agenda	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃
<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	Work and network with scientists/technologists in other disciplines	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃
<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	Work as part of a team	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃
<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	Explain my work/research to scientists/technologists in other disciplines	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃
<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	Present my or my organization's research/work to non-technical audiences	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃
<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	Be informed of research in other countries	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃
<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	Serve as a mentor	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃
<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	Lead projects or programs	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃
<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	Develop and or commercialize a service or product	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃

D8. In your current position, have you done any of the following? (Check all that apply)

- ₁ Applied or been recruited for a position outside the United States
- ₁ Attended professional conferences outside the US
- ₁ Worked as part of a team with colleagues located in other countries
- ₁ Searched or used international databases or citations
- ₁ Studied a foreign language for career-related reasons
- ₁ Worked abroad
- ₁ Traveled to other countries for your work
- ₁ None of the above

[Programming note: Go to Section I “Function”]

Section E: Government

[Programming note: Respondents sent here if question C10=1 only]

E1. By which of the following are you employed? (Check only one)

- ₁ U.S. federal government – legislative branch
- ₂ U.S. federal government department or agency (not lab)
- ₃ U.S. federal government laboratory (any department or agency)
- ₅ U.S. state government
- ₆ U.S. local government
- ₇ Foreign government
- ₈ Other _____

(Analysis note: Source: SED B6 modified)

E2. For which specific agency/department/lab etc. do you work?

[TEXTBOX]

E3. What is your job title?

[TEXTBOX]

E4. Which of the following best describes your position?

- ₁ First line Supervisor, Administrator, Manager (e.g. Director, Department/Division head)
- ₂ Individual Contributor/Program or Project Leader (e.g., Researcher, Scientist, Fellow)
- ₃ Other- (please specify) _____

**E5. Do you regularly engage in any of the following activities as part of your current job?
(Check all that apply)**

- ₁ Direct or participate in developing and/or implementing the vision and strategic direction of the organization
- ₁ Play a significant role in the development, implementation, and execution of policies, procedures, and standards
- ₁ Develop or direct the technical or scientific agenda of the organization
- ₁ Delegate responsibilities and assignments
- ₁ Develop and oversee budget and/or profit and loss statements
- ₁ None of the above

E6. In the left column, please indicate which of the following (if any) you regularly engage in as part of your current job.

In the right column, please indicate how well your graduate program prepared you in each area.

Regularly engage in			How well your graduate program prepared you		
Yes	No		Not Well	Well	Very Well
<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	Publish research/technical findings/reports	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃
<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	Balance the demands of multiple projects	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃
<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	Develop my own technical or scientific agenda	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃
<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	Work and network with scientists/technologists in other disciplines	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃
<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	Work as part of a team	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃
<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	Explain my work/research to scientists/technologists in other disciplines	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃
<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	Present my or my organization's research/work to non-technical audiences	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃
<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	Be informed of research in other countries	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃
<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	Obtain funding for research/project work	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃
<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	Serve as a mentor	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃
<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	Lead projects or programs	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃
<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	Develop and or commercialize a service or product	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃

E7. In your current position, have you done any of the following? (Check all that apply)

- 1 Applied or been recruited for a position outside the United States
- 1 Attended professional conferences outside the US
- 1 Worked as part of a team with colleagues located in other countries
- 1 Searched or used international databases or citations
- 1 Studied a foreign language for career-related reasons
- 1 Worked abroad
- 1 Traveled to other countries for your work
- 1 None of the above

[Programming note: Go to Section I “Function”]

Section F: Education

[Programming note: Respondents sent here if question C10=3 only]

F1. By which of the following are you employed? (Check only one)

- ₁ U.S. 4 year PhD granting institution
- ₂ U.S. 4 year non-PhD granting institution
- ₃ U.S. junior or community college or technical institute
- ₄ Preschool, elementary, or secondary school in the U.S.
- ₅ Foreign educational institution
- ₆ Other, Please Specify _____

(Analysis note: Source: SED B6 modified)

[Programming note: Create variable called HigherEd from question F1 as follows: If F1=1,2,3 then HigherEd=Yes. If F1=4,5,6 then HigherEd=No. This HigherEd variable will drive skip patterns throughout the rest of this survey.)

If HigherEd=Yes continue to question F2;

If respondent answered 4 then skip to question F5;

If respondent answered 5 or 6, then skip to question F6]

[Programming note: If HigherEd=Yes only]

F2. Which of the following best describes your position? (Check only one)

- ₁ Faculty
- ₂ Research faculty
- ₃ Postdoctoral fellow or associate
- ₄ Other university staff
- ₅ Other- (please specify) _____

[Programming note: Continue to question F3]

(Analysis note: Source: Modified SDR A18)

[Programming note: If HigherEd=Yes only]

F3. What is your faculty rank? (Check only one)

- ₁ Not applicable: no ranks designated in my organization or for my position
- ₂ Professor
- ₃ Associate Professor
- ₄ Assistant Professor
- ₅ Instructor/Lecturer
- ₆ Adjunct Professor
- ₇ Other

(Analysis note: Source: SDR A19)

[Programming note: Continue to question F4]

[Programming note: If HigherEd=Yes only]

F4. What is your tenure status? (Check only one)

- ₁ Not applicable: no tenure system at this organization
- ₂ Not applicable: no tenure system for my position
- ₃ Tenured
- ₄ On tenure track but not tenured
- ₅ Not on tenure track

[Programming note: Skip to question F7]

(Analysis note: Source: SDR A20)

[Programming note: If question F1=4 only]

F5. Which of the following best describes your position? (Check only one)

- ₁ Teacher
- ₂ School administrator
- ₃ District administrator
- ₄ Curriculum specialist
- ₅ Professional development specialist/provider
- ₆ Evaluator
- ₇ Other- (please specify) _____

(Analysis note: Source: Modified SDR A18)

[Programming note: Skip to question F7]

[Programming note: If question F1=5 or 6]

F6. What is your job title?

[TEXTBOX]

F7. What is the name of the school/institution/organization for which you work?

[TEXTBOX]

F8. Have you engaged in any of the following activities as part of your current job? (Check all that apply)

Participate in developing and/or implementing the vision and strategic direction of the institution

Develop or direct the technical or scientific agenda of a center

Play a significant role in the development, implementation, and execution of policies, procedures, and standards in your department

Participate in revising or developing curricula

Develop new degree programs

None of the above

F9. In the left column, please indicate which of the following you are required to do to succeed in your current job.

In the right column, please indicate how well your graduate program prepared you in each area.

Required to do in current position			How well your graduate program prepared you		
Yes	No		Not Well	Well	Very Well
<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	Publish research/technical findings/reports	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃
<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	Balance the demands of multiple projects	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃
<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	Develop my own technical or scientific agenda	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃
<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	Work and network with scientists/technologists in other disciplines	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃
<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	Work as part of a team	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃
<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	Explain my work/research to scientists/technologists in other disciplines	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃
<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	Present my or my organization's research/work to non-technical audiences	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃
<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	Be informed of research in other countries	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃
<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	Obtain funding for research/project work	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃
<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	Serve as a mentor	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃
<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	Lead projects or programs	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃
<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	Develop and or commercialize a service or product	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃

F10. In your current position, have you done any of the following? (Check all that apply)

- ₁ Applied or been recruited for a position outside the United States
- ₁ Attended professional conferences outside the US
- ₁ Worked as part of a team with colleagues located in other countries
- ₁ Searched or used international databases or citations
- ₁ Studied a foreign language for career-related reasons
- ₁ Worked abroad
- ₁ Traveled to other countries for your work
- ₁ None of the above

[Programming note: Go to Section I “Function”]

Section G: Nonprofit

[Programming note: Respondents sent here if question C10=4 only]

G1. By which of the following are you employed? (Check only one)

- ₁ Private foundation
- ₂ Professional association
- ₃ Nongovernmental organization (NGO)
- ₄ Research/consulting organization
- ₅ Other, specify _____

G2. Did your employer come into being as a new business within the past 5 years?

- ₁ Yes
- ₂ No

[Analysis note: Source: SDR A14]

G3. What is your job title?

[TEXTBOX]

G4. What is the name of the organization for which you work?

[TEXTBOX]

G5. Which of the following best describes the nature of your position?

- ₁ First line Supervisor, Administrator, Manager (e.g. Director, Department/Division head)
- ₂ Individual Contributor/Program or Project Leader (e.g., Researcher, Scientist, Fellow)
- ₃ Other- (please specify) _____

**G6. Do you regularly engage in any of the following activities as part of your current job?
(Check all that apply)**

- ₁ Direct or participate in developing and/or implementing the vision and strategic direction of the organization
- ₁ Play a significant role in the development, implementation, and execution of policies, procedures, and standards
- ₁ Develop or direct the technical or scientific agenda of the organization
- ₁ Delegate responsibilities and assignments
- ₁ Develop and oversee budget and/or profit and loss statements
- ₁ None of the above

G7. In the left column, please indicate which of the following you are required to do to succeed in your current job.

In the right column, please indicate how well your graduate program prepared you in each area.

Required to do in current position			How well your graduate program prepared you		
Yes	No		Not Well	Well	Very Well
<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	Publish research/technical findings/reports	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃
<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	Balance the demands of multiple projects	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃
<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	Develop my own technical or scientific agenda	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃
<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	Work and network with scientists/technologists in other disciplines	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃
<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	Work as part of a team	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃
<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	Explain my work/research to scientists/technologists in other disciplines	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃
<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	Present my or my organization's research/work to non-technical audiences	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃
<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	Be informed of research in other countries	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃
<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	Obtain funding for research/project work	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃
<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	Serve as a mentor	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃
<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	Lead projects or programs	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃
<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	Develop and or commercialize a service or product	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃

G8. In your current position, have you done any of the following? (Check all that apply)

- ₁ Applied or been recruited for a position outside the United States
- ₁ Attended professional conferences outside the US
- ₁ Worked as part of a team with colleagues located in other countries
- ₁ Searched or used international databases or citations
- ₁ Studied a foreign language for career-related reasons
- ₁ Worked abroad
- ₁ Traveled to other countries for your work
- ₁ None of the above

[Programming note: Go to Section I “Function”]

Section H: Entrepreneur/Self-employed

[Programming note: Respondents sent here if question C10=5 only]

H1. How would you best characterize your business? (Please check the one which best applies)

- ₁ Service provider
- ₂ Product provider
- ₃ Other (please specify) _____

H2. To which of the following industrial sectors do you provide your products/services? (Check all that apply)

Goods-Producing

- ₁ Agriculture, forestry, fishing and hunting
- ₁ Mining
- ₁ Construction
- Manufacturing:
 - ₁ Food, beverage, and tobacco products
 - ₁ Textiles and apparel
 - ₁ Wood products, paper products, printing
 - ₁ Energy/Fuels
 - ₁ Chemical products (basic/specialty; polymers/plastics; consumer products)
 - ₁ Pharmaceutical
 - ₁ Biotechnological products
 - ₁ Mineral and metals products
 - ₁ Computer and electronic products
 - ₁ Electrical equipment, appliance, and components
 - ₁ Transportation
 - ₁ Other manufacturing

Service-Providing

- ₁ Information, communications, media services
- ₁ Finance and banking services
- ₁ Professional, scientific, and business services
- ₁ Education services
- ₁ Health and healthcare-related services
- ₁ Leisure and hospitality services
- ₁ Public administration
- ₁ Other services

H3. Did your company come into being as a new business within the past 5 years?

₁ Yes

₂ No

[Analysis note Source: SDR A14 modified]

H4. How is your business funded? (Check all that apply)

₁ Self-funded

₁ Seeking external funding

₁ Have external funding (describe from where: _____)

₁ Other

H5. How many individuals do you employ including yourself? _____

H6. Is your business based on proprietary intellectual property?

₁ Yes

₂ No

[Programming note: If respondent answered 1 then continue to question H7, else skip to question H8]

[Programming note: If question H6=1 only]

H7. Please describe where your business intellectual property is from:

₁ Self-developed

₂ Self-developed, licensed from another source

₃ Not self-developed, licensed from another source

₄ Other-(please specify)_____

H8. What is the name of your company or business?

[TEXTBOX]

H9. What is your job title?

[TEXTBOX]

H10. Which of the following best describes the nature of your position? (Check only one)

- ₁ Top level executive (e.g. President, CEO, VP)
- ₂ First line Supervisor, Administrator, Manager (e.g. Director, Department/Division head)
- ₃ Individual Contributor/Program or Project Leader (e.g., Researcher, Scientist, Fellow)
- ₄ Other- (please specify): _____

H11. Do you regularly engage in any of the following activities as part of your current job? (Check all that apply)

- ₁ Direct or participate in developing and/or implementing the vision and strategic direction of the organization
- ₁ Play a significant role in the development, implementation, and execution of policies, procedures, and standards
- ₁ Develop or direct the technical or scientific agenda of the organization
- ₁ Delegate responsibilities and assignments
- ₁ Develop and oversee budget and/or profit and loss statements
- ₁ None of the above

H12. In the left column, please indicate which of the following you are required to do to succeed in your current job.

In the right column, please indicate how well your graduate program prepared you in each area.

Required to do in current position			How well your graduate program prepared you		
Yes	No		Not Well	Well	Very Well
<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	Publish research/technical findings/reports	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃
<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	Balance the demands of multiple projects	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃
<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	Develop my own technical or scientific agenda	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃
<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	Work and network with scientists/technologists in other disciplines	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃
<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	Work as part of a team	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃
<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	Explain my work/research to scientists/technologists in other disciplines	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃
<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	Present my or my organization's research/work to non-technical audiences	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃
<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	Be informed of research in other countries	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃
<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	Obtain funding for research/project work	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃
<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	Serve as a mentor	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃
<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	Lead projects or programs	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃
<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	Develop and or commercialize a service or product	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃

H13. In your current position, have you done any of the following? (Check all that apply)

- ₁ Applied or been recruited for a position outside the United States
- ₁ Attended professional conferences outside the US
- ₁ Worked as part of a team with colleagues located in other countries
- ₁ Searched or used international databases or citations
- ₁ Studied a foreign language for career-related reasons
- ₁ Worked abroad
- ₁ Traveled to other countries for your work
- ₁ None of the above

[Programming note: Go to Section I “Function”]

Section I: Function

Thank you. Next, we would like you to learn a little more about the nature of your work.

I1. From the list of disciplines below, please select those you use in your current work.

- Agricultural Sciences/Natural Resources
- Biological/Biomedical Sciences
- Health Sciences
- Engineering
- Computer and Information Sciences
- Mathematics
- Astronomy
- Atmospheric Science and Meteorology
- Chemistry
- Geological and Earth Sciences
- Physics
- Ocean/ Marine Sciences
- Psychology
- Social Sciences
- Humanities
- Education
- Professional Fields/Business Management/Administration
- Other

[Analysis note: Source: SDR A22, slightly modified]

[Programming note: Format is same as question B10 and B11. For each response item checked above, respondent will receive a follow up question with sub-disciplines. See APPENDIX for sub questions]

12. Please indicate your primary and, if applicable, secondary work responsibilities.

Primary		Secondary, if applicable
<input type="checkbox"/> _1	Research/Technology: Research & Development	<input type="checkbox"/> _1
<input type="checkbox"/> _2	Manufacturing	<input type="checkbox"/> _2
<input type="checkbox"/> _3	Technical Services or Technical Support	<input type="checkbox"/> _3
<input type="checkbox"/> _4	Education: Training, Teaching	<input type="checkbox"/> _4
<input type="checkbox"/> _5	Administration, Management	<input type="checkbox"/> _5
<input type="checkbox"/> _6	Other – Specify _____	<input type="checkbox"/> _6

(Analysis note: Source: SED B7, slight modification)

[Programming note:

If respondent answered 1, 2, or 3 in either Primary or Secondary column then go to Section J: “Research”;

If respondent answered 4 in either Primary or Secondary column, then go to Section K: “Teaching/Training”;

If respondent answered 5 in either Primary or Secondary column, then go to Section L: “Administration/Management”;

If respondent only answered 6 and did not choose any other response, then go to Section M: “Other”]

Section J: Research/Technology

[Programming note: Respondents sent to this section J “Research/Technology” if question “I-2”=1, 2, or 3 only]

J1. Which of the following characterize(s) the type of research or development that you do? (Check all that apply)

- Basic research – study directed toward gaining scientific knowledge primarily for its own sake
- Applied research – study directed toward gaining scientific knowledge to meet a recognized need
- Development – using knowledge gained from research for the production of materials, devices, and products
- Design of equipment, processes, structures, models
- Computer applications, programming, systems development
- Production, operations, manufacturing, maintenance (e.g., chip production, operating lab equipment)
- Technology services/technological support
- Other, specify _____

(Source: selected from SDR A31)

J2. Do you currently collaborate with individuals from disciplinary backgrounds other than your own?

- ₁ Yes
- ₂ No

J3. How would you best describe the disciplinary focus of your work?

I most often work on scientific/technical projects that...(Check only one)

- ₁ are centered in a single discipline
- ₂ require the integration of two or more disciplines

J4. Are there scientists/technologists in other countries doing work that is relevant to your current research?

- ₁ Yes
₂ No
₃ I don't know

[Programming note: For IGERT only]

J5. Please explain the relevance of what you learned in your IGERT program to the work you are currently doing, if any.

[TEXTBOX]

[Programming note: For Non-IGERT Comparison Respondents only]

J6. Please explain the relevance of what you learned in your graduate program to the work you are currently doing, if any.

[TEXTBOX]

[Programming note: From here...

If respondent answered 4 in either column on question “I-2”, then go to Section K: “Teaching/Training”;

If respondent answered 5 in either column on question “I-2”, then go to Section L: “Administration/Management”;

If respondent only answered 6 on question “I-2” and did not choose any other response, then go to Section M: “Other”;

Else, go to Section O: “Reflections on your IGERT training]

Section K: Teaching/Training

[Programming note: Respondents sent here if question “I-2”= 4 only]

Please answer a few additional questions about your work responsibilities related to teaching/training.

K1. How would you best describe the content of the courses, seminars, or workshops you teach or the training activities you conduct? (Check all that apply)

I most often teach content that...

₁ is centered in a single discipline

₂ requires the integration of two or more disciplines

[Programming note: If HigherEd=Yes, skip to question K4; Else continue to question K2]

K2. Do you currently lead or co-lead teaching or training sessions for your employer or related to your job?

₁ Yes

₂ No

K3. Do you currently develop or co-develop interdisciplinary teaching or training materials for your employer or related to your job?

₁ Yes

₂ No

[Programming note: If IGERT respondent, skip to question K6; If non-IGERT respondent, skip to question K7]

[Programming note: For HigherEd=Yes only]

K4. Do you currently provide instruction to undergraduate or graduate students, including teaching, preparing courses, and/or advising or supervising students?

₁ Yes

₂ No

[Programming note: If K4=Yes then continue to K5; else if IGERT respondent, skip to question K6; else if non IGERT respondent, skip to question K7]

[Programming note: For Higher Ed=Yes only]

K5. In the past year, have you engaged in any of the following activities related to undergraduate or graduate education? (Check all that apply)

- ₁ Team taught a course with colleague(s) from another discipline
- ₁ Supervised an interdisciplinary undergraduate or graduate level research project
- ₁ Had an undergraduate or graduate student from another department work on your research projects
- ₁ Discussed the international nature of the scientific enterprise in a course
- ₁ Helped develop a new interdisciplinary course
- ₁ Helped develop a new interdisciplinary undergraduate or graduate program of study
- ₁ Served on the dissertation committee of a graduate student from another department or discipline.

[Programming note: If IGERT respondent, continue to question K6; non IGERT respondent, skip to question K7]

[Programming note: For IGERT only]

K6. Please explain the relevance of what you learned in your IGERT program to the educational teaching or training work that you are currently doing, if any.

[TEXTBOX]

[See programming note after question K7 for skip pattern directions]

[Programming note: For Non-IGERT Comparison Respondents only]

K7. Please explain the relevance of what you learned in your graduate program to the educational teaching or training work that you are currently doing, if any.

[TEXTBOX]

***[Programming note: From here...**

If respondent answered 5 in either column on question “I-2”, then go to Section L: “Administration/Management”;

If respondent only answered 6 on question “I-2” and did not choose any other response, then go to Section M: “Other”;

Else, go to Section O: “Reflections on your IGERT training]

Section L: Administration/Management

[Programming note: Respondents sent here if either response to question "I-2" = 5]

Please answer a few additional questions about your work responsibilities related to administration/management.

L1. How would you best describe the content of the work you currently oversee? (Check only one)

I primarily oversee work that...

- ₁ is centered in a single discipline
- ₂ requires the integration of two or more disciplines

L2. What is the primary function of the group/organization that you manage or supervise? (Please check one)

- ₁ Research and/or Development
- ₂ Manufacturing/Production
- ₃ Quality
- ₄ Safety/Environment/Health
- ₅ Professional services (e.g. health care, counseling.)
- ₆ Teaching/Training
- ₇ Business/Marketing/Development
- ₈ Other _____

L3. Please select the status of the personnel whom you manage or supervise (Check only one)

- ₁ Primarily professional
- ₂ Some professional and some non-professional
- ₃ Primarily non-professional
- ₄ Unionized workers
- ₅ Other _____

[Programming note: If IGERT respondent, continue to question L4; non IGERT respondent, skip to question L5]

[Programming note: For IGERT only]

- L4. Please explain the relevance of what you learned in your IGERT program to your administrative and managerial responsibilities, if any.

[TEXTBOX]

[See programming note after question L5 for skip pattern directions]

[Programming note: For Non-IGERT Comparison Respondents only]

- L5. Please explain the relevance of what you learned in your graduate program to your administrative and managerial responsibilities, if any.

[TEXTBOX]

[Programming note: Everyone go to section O: “Reflections on your IGERT training”]

Section M: Other

[Programming note: Respondents sent here if question “I-2”=6 only]

M1. Which of the following best describes your primary work responsibilities?

- ₁ IT Services
- ₂ Financial Services
- ₃ Marketing/Business development
- ₄ Professional services (medical; counseling)
- ₅ Counseling Services
- ₆ Quality
- ₇ Environmental/Safety/Health
- ₈ Intellectual Property: Patent review/examination; technology transfer; external relations
- ₉ Other, specify _____

M2. Do you currently collaborate with individuals from disciplinary backgrounds other than your own in your current work?

- ₁ Yes
- ₂ No

M3. How would you describe the disciplinary focus of your job?

The work related to my job is primarily... (Check only one)

- ₁ centered in a single discipline
- ₂ requires the integration of two or more disciplines

M4. Are there individuals in other countries doing work that is relevant to your current job?

- ₁ Yes
- ₂ No
- ₃ I don't know

M5. Please describe your primary roles and responsibilities.

[TEXTBOX]

[Programming note: If IGERT respondent, continue to question M6; non IGERT respondent, skip to question M7]

[Programming note: For IGERT only]

M6. Please explain the relevance of what you learned in your IGERT program to the work you are currently doing, if any.

[TEXTBOX]

[See programming note after question M7 for skip pattern directions]

[Programming note: For Non-IGERT Comparison Respondents only]

M7. Please explain the relevance of what you learned in your IGERT program to the work you are currently doing, if any.

[TEXTBOX]

[Programming note: Everyone go to section O: “Reflections on your IGERT training”]

Section N: Unemployed

[Programming note: Respondents sent here if question C3=3 only]

In this section we would like to ask you a few questions about your current work status.

N1. What are your reasons for not working? (Check all that apply)

- ₁ Seeking employment
- ₁ Student
- ₁ Family responsibilities
- ₁ Suitable job not available
- ₁ Do not need or want to work
- ₁ Other, please specify: _____

[Analysis note: Source: SED A3]

N2. Have you worked for salary or wages since leaving [Institution Name]?

- ₁ Yes
- ₂ No

[Programming note: Institution Name should be filled into question stem from sample file.]

[Programming note: If respondent answered 1 then continue to question N3; Else, skip to question O3 for IGERT respondents and question O6 for non-IGERT respondents in the Section O: “Reflections on Your IGERT/Graduate Training”]

[Programming note: If question N2=1]

N3. To what extent do you agree with the following statements regarding the role of your graduate program in obtaining a position in the workforce? (Check one response in each row)

<i>As a result of my graduate program:</i>	Disagree	Somewhat disagree	Somewhat agree	Agree	I don't know
I was at a competitive advantage when applying for positions compared to graduates of other institutions	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄	<input type="checkbox"/> ₅
I felt prepared for a broad range of careers	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄	<input type="checkbox"/> ₅

[Programming note: If question N2=1]

N4. After leaving graduate school, which of the following employment sectors did you consider for your first position in the workforce (including postdoctoral positions)?

In the left hand column, *check all that apply*, and in the right hand column, *check which one sector you most desired*.

All that you considered (Check all that apply)		Most desired (Choose one)
<input type="checkbox"/> ₁	Government	<input type="checkbox"/> ₁
<input type="checkbox"/> ₁	Industry/Business	<input type="checkbox"/> ₂
<input type="checkbox"/> ₁	Educational Institution (College, university or K-12)	<input type="checkbox"/> ₃
<input type="checkbox"/> ₁	Nonprofit	<input type="checkbox"/> ₄
<input type="checkbox"/> ₁	Entrepreneur/Self-employed	<input type="checkbox"/> ₅

[Programming note: If question N2=1]

N5. In which of the following sectors did you work? (Check all that apply)

- ₁ Government
- ₁ Industry/Business
- ₁ Educational Institution (College, university, or K-12)
- ₁ Nonprofit
- ₁ Entrepreneur/Self-employed

Analysis note: Can map categories (with some modifications) to SED B5, SDR A15.

[Programming note: If question N2=1]

N6. In choosing your prior position in the workforce (including postdoctoral positions), how important was each of the following factors to you?

	Not important	A little important	Moderately important	Very important
Salary/Benefits	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄
Job security	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄
Opportunities for advancement	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄
Intellectual challenge	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄
Level of responsibility	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄
Degree of independence	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄
The opportunity to....				
Create new knowledge/make decisions	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄
Contribute to society	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄
Follow my passion	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄
Learn new schools skills	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄

[Analysis note: Source: SDR C10– modified]

[Programming note:

If IGERT respondent, continue to question N7;

If non IGERT respondent go to question O4 in section O: “Reflections on your graduate training”]

[Programming note: For IGERT only]

N7. On the following scale of 1 to 5, to what extent did your IGERT experience contribute to your ability to obtain a position in the workforce?

Not at all 1...	A little ...2...	To some extent ...3...	Quite a bit ...4...	A great deal ...5...
<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄	<input type="checkbox"/> ₅

[Programming note: Go to section O: “Reflections on your IGERT training” question O3]

Section O: Reflections on your Graduate training

The next three questions ask you to reflect back on your graduate training.

[If IGERT respondent then continue; if Non-IGERT respondent skip to question O4.]

O1. Given your current job responsibilities, what was the single greatest contribution of your IGERT-related graduate education? (If none, write none.)

Benefits:

[TEXTBOX]

O2. Given your current job responsibilities, what was the single greatest deficit in your IGERT-related graduate education? (If none, write none.)

Disadvantages:

[TEXTBOX]

O3. Would you recommend your IGERT-related graduate program to prospective graduate students?

₁ Yes

₂ No

[Programming note: Go to Section P: Background and Demographic Information"]

[Programming note: For NON IGERT Comparison Respondents]

O4. Given your current job responsibilities, what was the single greatest contribution of your graduate education? (If none, write none.)

Benefits:

[TEXTBOX]

[Programming note: For NON IGERT Comparison Respondents]

O5. Given your current job responsibilities, what was the single greatest deficit in your graduate education? (If none, write none.)

Disadvantages

[TEXTBOX]

[Programming note: For NON IGERT Comparison Respondents]

O6. Would you recommend your graduate program to prospective graduate students?

₁ Yes

₂ No

[Programming note: Go to section P: “Background and Demographic Information”]

Section P: Background and Demographic Information

{This information will only be asked of IGERT trainees if missing from the IGERT Distance Monitoring System.}

P1. In what month and year did you earn your bachelor's degree? (if you have more than one bachelor's degree, enter date of most recent.)

[month dropdown] / [year dropdown]

The following questions ask about your background. Providing data on race, ethnicity, gender, and disability status is entirely voluntary. Providing this information, however, is very helpful to this study.

P2. What is your ethnicity? (Check only one)

- ₁ Hispanic or Latino
- ₂ Not Hispanic or Latino
- ₃ I choose not to report this information

P3. What is your race? (Check all that apply)

- ₁ American Indian or Alaska Native, specify tribal affiliation(s)_____
- ₁ Asian
- ₁ Black or African American
- ₁ Native Hawaiian or Other Pacific Islander
- ₁ White
- ₁ I choose not to report this information

{Source: SED C14}

P4. What is your gender? (Check only one)

- ₁ Male
- ₂ Female
- ₃ I choose not to report this information

P5. What is your citizenship status? (Check only one)

- US Citizen
 - ₁ Since birth
 - ₂ Naturalized
- Non-US Citizen
 - ₃ With a Permanent U.S. Resident Visa ("Green Card")
 - ₄ With a Temporary U.S. Visa

P6. Has anyone in your family earned a Ph.D. degree in a Science, Technology, Engineering, or Mathematics field? (Check all that apply)

- Any parent or guardian
- Any sibling
- Spouse/Partner
- Other, specify: _____
- None of the above

[Programming note: For IGERT who are Employed in the Research sector only—This question is OPTIONAL]

P7. In a few brief sentences, please describe how you would explain to someone who is not an expert in your field the scientific or technical problem on which you are currently working, highlighting the importance of the question and /or any innovative methodologies you are using.

[TEXTBOX]

[Programming note: End of survey, show “Thank You” note below]

Thank you for taking the time to respond to this survey. Your responses will help the National Science Foundation plan support for graduate education in the future.

Appendix

Survey should be programmed so that questions B10, B11, and I1 have one or more follow up questions that appear based on the discipline(s) the respondents check in each question. The follow up question stem is different for each of the three questions.

The “Field Name” should be filled into each question stem.

- Any follow up questions for B10 should have the following question stem:

Which [Field Name] discipline(s) did you use for your dissertation research? (check all that apply)

Response choices are the sub-fields (that correspond with the Field Names) listed in the table below.

- Any follow up questions for B11 should have the following question stem:

Which [Field Name] discipline(s) are most closely aligned to what you studied during your graduate education? (check all that apply)

Response choices are the sub-fields (that correspond with the Field Names) listed in the table below.

- Any follow up questions for I1 should have the following question stem:

Which [Field Name] discipline(s) do you use in your current work? (check all that apply)

Response choices are the sub-fields (that correspond with the Field Names) listed in the table below.

Field Names	Sub-Fields
<p>Agricultural Sciences/Natural Resources</p>	<p>Agricultural Economics Agriculture Business & Mgmt. Agricultural Animal Breeding Animal Nutrition Dairy Science Animal Science, Poultry (or Avian) Animal Science, Other Agronomy and Crop Science Agricultural & Horticultural Plant Breeding Food Science, & Technology, Other Soil Chemistry/Microbiology Soil Sciences, Other Horticulture Science</p> <p>Fishing & Fisheries Sciences/Management Forest Sciences & Biology Forest Engineering Forest/Resources Management Wood Science & Pulp/Paper Technology Natural Resources/Conservation Forestry & Related Sciences, Other Wildlife/Range Management Environmental Sciences Agricultural Sciences, General or Other</p>

Field Names	Sub-Fields
Biological/Biomedical Sciences	Biochemistry Bioinformatics Biomedical Sciences Biophysics Biotechnology Bacteriology Plant Genetics Plant Pathology/Phytopathology Plant Physiology Botany/Plant Biology Anatomy Biometrics & Biostatistics Cell/Cellular Biology & Histology Evolutionary Biology Ecology Developmental Biology/Embryology Endocrinology Entomology Immunology Molecular Biology Microbiology Cancer Biology Neurosciences Nutrition Sciences Parasitology Toxicology Genetics/Genomics, Human & Animal Pathology, Human & Animal Pharmacology Physiology, Human & Animal Zoology Biology/Biomedical Sciences, General or Other
Health Sciences	Speech Language Pathology and Audiology Environmental Health Environmental Toxicology Health Systems/Services Administration Public Health Epidemiology Kinesiology/Exercise Science Nursing Science Medicinal/Pharmaceutical Sciences Rehabilitation/Therapeutic Services Veterinary Sciences Health Sciences, General or Other

Field Names	Sub-Fields
Engineering	Aerospace, Aeronautical & Astronautical Engineering Agricultural Engineering Bioengineering & Biomedical Engineering Ceramic Sciences Engineering Chemical Engineering Civil Engineering Communications Engineering Computer Engineering Electrical, Electronics, & Communications Engineering Engineering Mechanics Engineering Physics Engineering Science Environmental Health Engineering Industrial & Manufacturing Engineering Material Science Engineering Mechanical Engineering Metallurgical Engineering Mining & Mineral Engineering Nuclear Engineering Ocean Engineering Operations Research Petroleum Engineering Polymer & Plastics Engineering Systems Engineering Engineering Management & Administration Engineering, General or Other
Computer & Information Sciences	Computer Science Information Sciences & Systems Computer and Information Science, Other
Mathematics	Applied Mathematics Algebra Analysis & Functional Analysis Geometry/Geometric Analysis Logic Number Theory Statistics Topology/Foundations Computing Theory & Practice Operations Research Mathematics/Statistics, General or Other
Astronomy	Astronomy Astrophysics
Atmospheric Science & Meteorology	Atmospheric Chemistry & Climatology Atmospheric Physics & Dynamics Meteorology Atmospheric Science/Meteorology, General or Other

Field Names	Sub-Fields
Chemistry	Analytical Chemistry Inorganic Chemistry Nuclear Organic Chemistry Medicinal/Pharmaceutical Physical Chemistry Polymer Chemistry Theoretical Chemistry Chemistry, General or Other
Geological & Earth Sciences	Geology Geochemistry Geophysics & Seismology Paleontology Mineralogy & Petrology Stratigraphy & Sedimentation Geomorphology & Glacial Geology Geology & Earth Sciences, General or Other
Physics	Acoustics Atomic/Molecular/Chemical Physics Particle (Elementary Physics) Biophysics Fluids Nuclear Physics Optics/Photonics Plasma/Fusion Physics Polymer Physics Condensed Matter/Low Temperature Physics Applied Physics Physics, General or Other
Ocean/Marine Sciences	Environmental Science Hydrology & Water Resources Oceanography, Chemical & Physical Marine Sciences Ocean/Marine, Other
Psychology	Clinical Psychology Cognitive Psychology & Psycholinguistics Comparative Psychology Counseling Developmental & Child Psychology Human Development & Family Studies Experimental Psychology Educational Psychology Family Psychology Industrial & Organizational Personality Psychology Physiological/Psychobiology Psychology Psychometrics & Quantitative Psychology School Psychology Social Psychology Psychology, General or Other

Field Names	Sub-Fields
Social Sciences	Anthropology Area/Ethnic/Cultural/Gender Studies Criminal Justice & Corrections Criminology Demography/Population Studies Economics Econometrics Geography International Relations/Affairs Linguistics Political Science & Government Public Policy Analysis Sociology Statistics Urban Affairs/Studies Urban/City, Community & Regional Planning Social Sciences, General or Other
Humanities	History Letters Foreign Languages & Literature Music Religion/Religious Studies Drama/Theater Arts Humanities, General or Other
Education	Curriculum & Instruction Educational Administration & Supervision Educational Leadership Educational/Instructional Media Design Educational Statistics/Research Methods Educational Assessment/Testing/Measurement Educational Psychology Social/Philosophical Foundations of Education Special Education Counseling Education/Counseling & Guidance Higher Education/Evaluation & Research Pre-elementary/Early Childhood Teacher Education Elementary Teacher Education Secondary Teacher Education Adult & Continuing Teacher Education Education, Other or General
Professional Fields/Business Management/Administration	Accounting Finance Banking/Financial Supportive Services Business Administration & Management Business/Managerial Economics International Business/Trade/Commerce Management Information Systems/Business Statistics Marketing Management & Research Human Resources Development Operations Research Organization Behavior Business Management/Administration, General or Other

Field Names	Sub-Fields
Communications	Communication Research Mass Communication/Media Studies Film, Radio, TV & Digital Communication Communication Theory Communication, General or Other
Other	Architecture/Environmental Design Home Economics Law Library Science Parks/Sports/Rec./Leisure/Fitness Public Administration Social Work Theology/Religious Education Professional Fields, General Other Fields

Examples:

- ❖ For survey question B10, if respondent checks Agricultural Sciences/Natural Resources, he/she should get the following sub-question:

Which Agricultural Sciences/Natural Resources discipline(s) did you use for your dissertation research? (check all that apply)

- Agricultural Economics
- Agriculture Business & Mgmt.
- Agricultural Animal Breeding
- Animal Nutrition
- Dairy Science
- Animal Science, Poultry (or Avian)
- Animal Science, Other
- Agronomy and Crop Science
- Agricultural & Horticultural Plant Breeding
- Plant Pathology/Phytopathology (also in Bio Sciences)
- Plant Sciences, Other
- Food Science
- Food Science, & Technology, Other
- Soil Chemistry/Microbiology
- Soil Sciences, Other
- Horticulture Science
- Fishing & Fisheries Sciences/Management
- Forest Sciences & Biology
- Forest Engineering
- Forest/Resources Management
- Wood Science & Pulp/Paper Technology
- Natural Resources/Conservation
- Forestry & Related Sciences, Other
- Wildlife/Range Management
- Environmental Sciences
- Agriculture, General
- Agricultural Sciences, Other

- ❖ For survey question B11, if respondent checks Mathematics, he/she should get the following sub-question:

Which Mathematics discipline(s) are most closely aligned to what you studied during your graduate education? (check all that apply)

- Applied Mathematics
- Algebra
- Analysis & Functional Analysis
- Geometry/Geometric Analysis
- Logic
- Number Theory
- Statistics
- Topology/Foundations
- Computing Theory & Practice
- Operations Research
- Mathematics/Statistics, General or Other

- ❖ For survey question I1, if respondent checks Ocean/Marine Sciences, he/she should get the following sub-question:

Which Ocean/Marine Sciences discipline(s) do you use in your current work? (check all that apply)

- Environmental Science
- Hydrology & Water Resources
- Oceanography, Chemical & Physical
- Marine Sciences
- Ocean/Marine, Other