Attachment B1

Integrative Graduate Education and Research Traineeship Program (IGERT)

Monitoring System

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IGERT: Crosswalk – Principal Investigator (PI) Survey	3
IGERT: Crosswalk – Trainee Survey	
IGERT: Number of Respondents, Frequency of Response, and Annual Hour Burden	
IGERT: Hour Burden Estimates by Each Form and Aggregate Hour Burdens	
IGERT: Estimates of Annualized Cost to Respondents for the Hour Burdens	
IGERT: Estimates of Costs to the Federal Government	
IGERT: Questions – PI Survey	
IGERT: Questions – Trainee Survey	

IGERT: Crosswalk - Principal Investigator (PI) Survey

Common Collection Categories	oject ics ¹	ion ics²	uts ³
Questions	Staff and Project Participant Characteristics ¹	Project Implementation Characteristics²	Project Outputs ³
1. Project Summary			
1a. Project Characteristics			
Please indicate up to three NSF directorates that most closely correspond to your interdisciplinary research theme. • BIO–Biological Sciences • CISE–Computer and Information Science and Engineering • ENG–Engineering • GEO–Geosciences • MPS–Mathematical and Physical Sciences • OCI–Office of Cyberinfrastructure • OPP–Office of Polar Programs • SBE–Social, Behavioral, and Economic Sciences		X	
Did you support any IGERT trainees during the current project year? Yes/No		X	
Considering the IGERT trainees as a group, how do they compare with graduate students you usually see in terms of their academic/research potential? • Far superior to our usual graduate students • Somewhat better than our usual graduate students • About the same as our usual graduate students • Somewhat less promising or less successful than our usual graduate students • Much less promising or less successful than our usual students		X	
How do trainees in your program earn their doctoral degrees? (Mark all that apply) Trainees earn their degrees from the IGERT multidisciplinary/interdisciplinary program. Trainees earn their degrees from traditional single-discipline departments. Trainees earn their degrees from multidisciplinary/interdisciplinary programs, centers or units other than IGERT. Other (certificates, etc.) (Please specify):		X	
Does your IGERT project include undergraduate involvement? Yes/No		X	
If yes, were NSF IGERT funds used for undergraduate involvement? Yes/No		X	
Does your IGERT project include postdoctoral involvement? Yes/No		X	
If yes, were NSF IGERT funds used for postdoctorate involvement?		X	

¹ Elements of these characteristics include name, address, date of birth, gender, ethnicity, race, disability status, class, major, grade point average, and project role.

² Elements of these characteristics include sources and amount of funds, fellowships, scholarships, traineeships, partnerships, training, and research methods.

³ Elements of these characteristics include research findings, publications, presentations, degrees granted, and educational materials.

Common Collection Categories Questions	Staff and Project Participant Characteristics	Project Implementation Characteristics	Project Outputs
Yes/No Estimate the amount of funds from the current year of IGERT support that will be carried over to the next year as of the project anniversary date (the date when your annual report will be due in Research.gov): Total funds carried over to the next year If carryover funds are entered (i.e., greater than 0), please provide an explanation for these funds Participant support costs carried over to the next year Stipends carried over to the next year		X	
Describe how the Competitive Innovation Incentive Fund (CIIF) was used, barriers to implementation of CIIF training activities, and notable CIIF training successes. 1b. Research Achievements		X	
Please describe up to three interdisciplinary research achievements/discoveries/outcomes that demonstrate how your IGERT project has been particularly effective in attaining the interdisciplinary research goals you set out to achieve during this reporting period. Please report achievements that include tangible outcomes such as publication, patent, discovery, or preliminary findings. Individual trainee achievements should be reserved for the "Trainee Achievements" section. (Responses are limited to 1,000 characters for each achievement.) [The PI has an option to make each achievement available for use on the IGERT Resource Center Web site, viewable by the general public.]			X
1c. Education Achievements Please describe up to three achievements/outcomes that illustrate exceptional added value to the trainees' educational experience during this reporting period. Please focus on overall programmatic achievements, rather than achievements of individual trainees. (Responses are limited to 1,000 characters for each achievement.) [The PI has an option to make each achievement available for use on the IGERT Resource Center Web site, viewable by the general public.] 1d. Trainee Achievements			X
Please describe up to three research or education achievements/outcomes, involving either a single trainee or a group of trainees made possible through the participation of trainees in your IGERT project during this reporting period.			X

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Questions	Staff and Project Participant Characteristics	Project Implementation Characteristics	Project Outputs
(Responses are limited to 1,000 characters for each achievement.)			
[The PI has an option to make each achievement available for use on the IGERT Resource Center Web site, viewable by the general public.]			
1e. Barriers to Implementation			
Please identify and describe up to three key barriers (e.g., programmatic, institutional) you have encountered in the process of implementing your IGERT project during this reporting period. For each barrier identified, briefly describe how your project has responded.		X	
(Responses are limited to 1,000 characters each for each issue/challenge and corresponding response.)			
1f. Outreach Activities			
Please report any outreach activities involving your IGERT project that occurred during this reporting period. Outreach activities include your IGERT project, IGERT faculty, and/or IGERT trainees being featured in the media (e.g., TV, radio, magazine articles) or talks, presentations, or workshops given to school groups, civic groups, non-scientifically-based professional groups, members of the government, or the general public. Please mark the checkbox if you do not have any Outreach Activities to			
report.			
For each outreach activity: Provide a short title for this activity			
Name of the media outlet or organization for which outreach was done		X	X
Date of the activity			
Type of activity Museum Media K-12 Undergraduate Government Informal Science Other			
Briefly describe this activity, including the names of the IGERT individuals involved.			

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1g. NSF Highlights			
Each year, NSF program officers are asked to write Highlights (formerly			X
known as "Nuggets") on the results of NSF research and education			
awards. These Highlights are used to help assess NSF's performance in			
attaining the strategic outcome goals outlined in the NSF Strategic Plan			
and to share successes with various groups.			
Your Highlight will probably relate to one of the achievements reported			
in sections 1b, c or d, but in greater detail and with images. When			
writing your Highlight, please clearly describe how the interdisciplinary			
theme of your IGERT project made this work possible, as distinct from			
what might have been possible through only a single-discipline research			
or education grant. Also, please write the Highlight such that a general			
audience can grasp the importance, value and merit of the research, the			
educational outreach, or whatever results you are highlighting.			
Starting with a statement of what the research team has achieved and			
why it is important and then explaining what problem is being solved,			
what obstacle is being overcome, or what new discovery was made is a			
great way to write a Highlight for maximum effectiveness.			
Reporting Highlights is related to requirements under the Government			
Performance and Results Act (GPRA).			
Please respond only if you have something relevant and significant to			
share for this reporting period.			
Cuidelines for Whiteins Highlights			
 Guidelines for Writing Highlights Write for a general audience. Common uses for Highlights include the 			
following: program monitoring by NSF staff; reporting to Congress on NSF goal			
attainment; demonstrating achievements in NSF's annual Budget Requests,			
Performance and Accountability Reports (PAR), and other documents; and			
providing information for the general public. Well-written, informative Highlights			
submitted here may serve several purposes and thereby eliminate duplicate writing efforts later.			
 Include images. NSF Highlights and images are used not only by the Advisory 			
Committee for GRPA Performance Assessment, but also for illustration, in the			
NSF's annual Budget Requests, Performance and Accountability Reports (e.g.,			
PAR), and other documents. Clear, colorful images (e.g., pictures, graphs, charts)			
greatly enhance the value of Highlights.			
• Provide sufficient information to describe the research and the results so that the IGERT Program Officers can determine whether a specific objective (and			
IGERT Program Officers can determine whether a specific objective (and therefore, outcome goal) was met and its most valuable use.			
• Start with a statement of what the research team has achieved, and go on to			
explain why it solves a problem or overcomes an obstacle. Do not start with a			

Common Collection Categories Questions	Staff and Project Participant Characteristics	Project Implementation Characteristics	Project Outputs
lengthy explanation of the problem to be solved. Example: "Prof. Blivett and her team at the University of Eutaw have discovered/achieved/developed XYZ. This was hard/remarkable/useful/world-changing because or this seminal development could lead to practical applications in" • Include the location and/or lead institution for the research and the names of all principal investigators. • Include an explicit statement that NSF is supporting this work, e.g., "NSF-funded researchers at Stanford University have demonstrated" or "Astronomers working at NSF's Gemini Observatory have discovered"			
For each Highlight: Provide a descriptive title for this Highlight.			
If a video is associated with the Highlight, please provide a URL link to the video.			
Please indicate the primary and secondary NSF strategic goals that best describe the Highlight [For each NSF goal listed, the PI selects either primary or secondary]			
Describe the achievement/result that is the Highlight.			
How does this activity address the primary and secondary NSF strategic goals that you marked above?			
[The PI has an option to make each Highlight available for use on the IGERT Resource Center Web site, viewable by the general public.]			
For each Highlight Image: Provide a descriptive title for this image.			
Upload image file (bmp, gif, jpeg, pdf, png, or tiff only)			
Does NSF have permission to use this image? Yes/No			
Image credits (Required only if you answered "yes" to the previous question)			
Description of image (optional)			

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2 ICEDT Project Personnel Traines and Associate Petails			
2. IGERT Project Personnel, Trainee, and Associate Details			
Provide for each Principal Investigator	***		
Mark the checkbox if [PI Name] served as PI for the current project year	X		
Name: First, Middle Initial, Last, Previous Surname	X		
Contact Information:			
Institution Name			l
Title			ı
 Professor 			
Associate Professor			
• Instructor			
• Other			
Department at Institution			
Address at Institution	X		.
Institution's City			
Institution's State			.
ZIP Code			.
Phone			.
Extension			
Fax			.
E-mail Address			.
Web URL			.
Ethnicity (Choose one):			
Hispanic or Latino	X		
Not Hispanic or Latino	Λ		
Not Reported			
Race (Mark all that apply):			
American Indian or Alaska Native			ı
• Asian	v		ı
 Black or African American Native Hawaiian or other Pacific Islander 	X		l
White			l
Not Reported			l
Gender (Choose one):			
• Male			l
Female	X		ı
Not Reported			
Disability Status (Choose one):			
Yes (Check Yes if any of the following apply):			ı
Deaf or serious difficulty hearing			
Blind or serious difficulty seeing even when wearing glasses	.		
Serious difficulty walking or climbing stairs Other parious disability related to a physical process, as a president of the process.	X		
Other serious disability related to a physical, mental, or emotional condition			
• No			
• Do not wish to provide			
<u>*</u>			

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Citizenship (Choose one):			
U.S. Citizen/U.S. National			
U.S. Permanent Resident	X		
Other Non-U.S. CitizenNot Reported			
Provide for each IGERT Project Coordinator			
Name: First, Middle Initial, Last, Previous Surname	X		
Contact Information:			
Institution Name			
Title			
• Professor			
Associate Professor			
InstructorOther			
Department			
Current Address	37		
Current City	X		
Current State			
ZIP Code			
Phone			
Extension			
Fax			
E-mail Address			
Web URL			
Provide for each IGERT Co-PI and Trainee/Associate Advisor			
Name: First, Middle Initial, Last, Previous Surname	X		
Mark the checkbox if the individual served as co-PI or trainee/associate	X		
advisor for the current project year.	Λ		
Role in Project (Mark all that apply):			
• Co-PI	X		
Trainee/Associate Advisor and/or Faculty Participant Contact Information:	X		
Contact Information: Institution Name	Λ		
Title • Professor			
Associate Professor			
Instructor			
• Other			
Department at Institution			
Address at Institution			
Institution's City			
Institution's State			
ZI Code			

Common Collection Categories	oject ics	tion ics	outs
Questions	Staff and Project Participant Characteristics	Project Implementation Characteristics	Project Outputs
Phone Extension Fax E-mail Address Web URL			
Current IGERT Advisor Yes/No	X		
Ethnicity (Choose one): Hispanic or Latino Not Hispanic or Latino Not Reported	X		
Race (Mark all that apply):	X		
Gender (Choose one):	X		
Disability Status (Choose one): • Yes (Check Yes if any of the following apply): • Deaf or serious difficulty hearing • Blind or serious difficulty seeing even when wearing glasses • Serious difficulty walking or climbing stairs • Other serious disability related to a physical, mental, or emotional condition • No • Do not wish to provide	X		
Citizenship (Choose one):	X		
Provide for each IGERT Trainee and Associate			
Name: First, Middle Initial, Last, Previous Surname	X		
E-mail Address	X		
Verify IGERT-required Citizenship/Residency Status (Trainees only) • Yes, the trainee is a U.S. citizen/U.S. national or U.S. permanent resident • No, the trainee does not meet IGERT citizenship Requirement. If you answered No, please provide an explanation.	X		

Categories Categories Categories July 2015		Collection
GRE Scores: Verbal Quantitative Analytical Subject (Select GRE Subject) • Biochemistry, Cell & Molecular Biology • Biology • Chemistry • Computer Science • Economics • Education • Engineering • Geology • History • Literature in English • Mathematics • Music • Physics • Political Science • Psychology • Revised Music • Sociology When did the trainee/associate first enroll in graduate study at this	je S	
GRE Scores: Verbal Quantitative Analytical Subject (Select GRE Subject) • Biochemistry, Cell & Molecular Biology • Biology • Chemistry • Computer Science • Economics • Education • Engineering • Geology • History • Literature in English • Mathematics • Music • Physics • Political Science • Psychology • Revised Music • Sociology When did the trainee/associate first enroll in graduate study at this	Pro t isti	Categories
Verbal Quantitative Analytical Subject (Select GRE Subject) • Biochemistry, Cell & Molecular Biology • Biology • Chemistry • Computer Science • Economics • Education • Engineering • Geology • History • Literature in English • Mathematics • Music • Physics • Political Science • Psychology • Revised Music • Sociology When did the trainee/associate first enroll in graduate study at this	Staff and F Participan Characteri	Questions
Quantitative Analytical Subject (Select GRE Subject) Biochemistry, Cell & Molecular Biology Chemistry Computer Science Economics Education Engineering Geology History Literature in English Mathematics Music Physics Political Science Psychology Revised Music Sociology When did the trainee/associate first enroll in graduate study at this		GRE Scores:
Analytical Subject (Select GRE Subject) Biochemistry, Cell & Molecular Biology Biology Chemistry Computer Science Economics Education Engineering Geology History Literature in English Mathematics Mathematics Music Physics Political Science Psychology Revised Music Sociology When did the trainee/associate first enroll in graduate study at this		Verbal
Analytical Subject (Select GRE Subject) Biochemistry, Cell & Molecular Biology Biology Chemistry Computer Science Economics Education Engineering Geology History Literature in English Mathematics Mathematics Music Physics Political Science Psychology Revised Music Sociology When did the trainee/associate first enroll in graduate study at this		Quantitative
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 Biology Chemistry Computer Science Economics Education Engineering Geology History Literature in English Mathematics Music Physics Political Science Psychology Revised Music Sociology When did the trainee/associate first enroll in graduate study at this		
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 Physics Political Science Psychology Revised Music Sociology When did the trainee/associate first enroll in graduate study at this		
 Political Science Psychology Revised Music Sociology When did the trainee/associate first enroll in graduate study at this		
 Psychology Revised Music Sociology When did the trainee/associate first enroll in graduate study at this		
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When did the trainee/associate first enroll in graduate study at this		
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	v	When did the trainee/associate first enroll in graduate study at this
nstitution? (mm/yyyy)	Λ	institution? (mm/yyyy)
When did the trainee first began receiving IGERT funding? (Trainees		When did the trainee first began receiving IGERT funding? (Trainees
		only) (mm/yyyy)
When did the associate first began participating in the IGERT project?		When did the associate first began participating in the IGERT project?
X		(Associates only) (mm/yyyy)
07 \ 00007		Funding (Trainees only)
		Indicate whether this trainee is a Funded Trainee or a Formerly Funded
		Trainee for this reporting period. (Note: A trainee who received IGERT
		funding for any or all of this reporting period is a Funded Trainee.)
• Funded Trainee X		
Number of months funded		
Formerly Funded Trainee (Trainees only)		
Has the student been engaged in IGERT activities, research, education, or		
training during this reporting period?		9 9 1 91
Yes/No Please describe the current cituation that best describes this ICERT V		
	Λ	Please describe the current situation that best describes this IGERT
		trainee/associate. (Select one) Has not yet graduated, but is pursuing a Ph.D. at your institution
 Has not yet graduated, but is pursuing a Ph.D. at your institution. Has not yet graduated, but is pursuing a master's degree at your institution. 		
Has graduated from your institution with a Ph.D. (Enter month/year of		
completion) (mm/yyyy)		
Has graduated from your institution with a master's degree. (Enter month/year		

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Categories Questions	Staff and Project Participant Characteristics	Project Implementation Characteristics	Project Outputs
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completed) (mm/yyyy) • Has left your institution without earning degree. (Enter month/year departed) (mm/yyyy)			
3. Project Features			
3a. Trainee Preparation in Multidisciplinary/Interdisciplinary Research			
Briefly describe up to three of the promising practices for preparing IGERT trainees to conduct collaborative research that transcends traditional disciplinary boundaries.			
(Responses are limited to 1,000 characters for each practice.)			
Measure: Formal evaluation Informal surveys Group feedback Quantitative measure Other (Please specify):		X	
[The PI has an option to make each practice and measure pair available for use on the IGERT Resource Center Web site, viewable by the general public.]			
 Mark the following components of multidisciplinary/interdisciplinary research preparation that apply to the majority of IGERT trainees involved in your project during this reporting period. (Mark all that apply) Trainees undertook formal coursework/training in research methods, practices, and instrumentation in their primary discipline equivalent to traditional graduate students. Trainees had practical, hands-on laboratory and/or field experience in conducting research across the breadth of disciplines in the IGERT program. Trainees undertook formal coursework/training across the breadth of disciplines encompassed by the IGERT project. Trainees undertook formal coursework/training in both the ethical conduct of research and ethical conduct related to the themes encompassed by your IGERT project. Other preparation to conduct high-quality research. (Please specify): No components of Trainee Preparation in Multidisciplinary/Interdisciplinary Research applied during this reporting period. 3b. Trainee Preparation in Professional Skills 		X	
Briefly describe up to three formal training activities (e.g., coursework,		X	
workshop, professional speaker) for preparing IGERT trainees to effectively communicate science to general audiences.			

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(Responses are limited to 1,000 characters for each activity.)			
[The PI has an option to make each activity available for use on the			
IGERT Resource Center Web site, viewable by the general public.]			
Mark the following components of professional skills development that			
apply to the <u>majority</u> of IGERT trainees in your project during this			
reporting period. (Mark all that apply)			
Trainees undertook coursework/training that included regular faculty critique			
of and feedback on professional writing.			
Trainees authored, submitted, or published research papers in refereed			
journals.			
Trainees took coursework/training (e.g., brown bags, seminars) that included			
regular critique of and feedback on professional speaking/presentation skills.			
Trainees made presentations at academic/scientific professional conferences			
or meetings.			
Trainees presented results from their IGERT to professional, nonacademic			
audiences (e.g., industry, government).			
 Trainees undertook coursework/training to develop media-based or information technology-based communication skills. 		X	
Trainees produced multimedia materials, Web sites, or other cyber-enabled			
tools to communicate the results of their IGERT activities to external			
audiences.			
 Trainees used multimedia materials, Web sites, or other cyber-enabled tools as 			
part of their interdisciplinary scientific training and collaboration.			
Trainees received training in team-building and project management skills.			
Trainees received training in effective time and task management.			
Trainees participated as members of teams engaged in joint research, advantage and (or outpook offerts)			
education, and/or outreach efforts.Trainees led teams engaged in research, education, and/or outreach efforts.			
 Other preparation in professional skills development (Please specify): 			
Other preparation in professional skins development (Freuse speeily).			
No components of Trainee Preparation in Professional Skills applied during			
this reporting period.			
3c. Trainee Preparation for STEM Careers			
Mark the following components that apply to the <u>majority</u> of IGERT		X	
trainees in your project during this reporting period. (Mark all that			
apply)			
• Trainees received training or instruction (e.g., courses, workshops) in effective			
teaching practices.			
Trainees developed and presented course and/or curriculum materials.			
Trainees served as mentors to others (e.g., graduate students, undergraduates,			
laboratory technicians).			
Trainees received training/mentoring in grant proposal preparation.			
Trainees authored/coauthored and submitted grant proposals.			
Trainees received training/instruction on the interaction between academic			
research and industrial technical requirements. Trainees received training/instruction for applying their research to address.			
Trainees received training/instruction for applying their research to address			

Questions Public policy concerns or issues. Trainees had internships (off-campus, research, educational, and/or work experiences) in nonacademic settings (e.g., industry, government).	Common Collection	ject	ion	uts
Trainees had internships (off-campus, research, educational, and/or work experiences) in nonacademic settings (e.g., industry, government). Trainees had professional interactions other than internships with nonacademic employers (e.g., industry, government) in order to learn about career opportunities and requirements. Trainees communicated, worked, or collaborated with scientists of other nationalities. Other preparation for nonacademic careers (e.g., industry, government) (Please specify): No components of Trainee Preparation for STEM Careers applied during this reporting period. 3d. Tactics for Recruitment and Broadening Participation Do you have an overall, active plan with a specific set of goals and timelines for the recruitment and retention of trainees, including specifics for broadening participation of groups underrepresented in science and engineering? Yes/No If no, please explain: Regardless of your response to the previous question, please describe up to three of the promising tactics and results for recruiting qualified trainees to your IGERT project during this reporting period. (Responses are limited to 1,000 characters for each tactic and result.) IThe PI has an option to make each Tactic and Result pair available for use on the IGERT Resource Center Web site, viewable by the general public.] Please describe the extent to which each of the following practices been productive for recruiting trainees overall to your IGERT during this reporting period. (Radio buttons labeled Productive, Somewhat Productive, Not Productive, and NA are provided for each of the following recruiting practices.] Relationships with NSF programs that can provide an undergraduate pool of potential IGERT trainees (e.g., REUs, NSF Centers) Relationships with faculty and programs at other academic institutions • Use of recruiting resources on your campus (e.g., career	Categories Questions	Staff and Project Participant Characteristics	Project Implementation Characteristics	Project Outputs
Do you have an overall, active plan with a specific set of goals and timelines for the recruitment and retention of trainees, including specifics for broadening participation of groups underrepresented in science and engineering? Yes/No If no, please explain: Regardless of your response to the previous question, please describe up to three of the promising tactics and results for recruiting qualified trainees to your IGERT project during this reporting period. (Responses are limited to 1,000 characters for each tactic and result.) X [The PI has an option to make each Tactic and Result pair available for use on the IGERT Resource Center Web site, viewable by the general public.] Please describe the extent to which each of the following practices been productive for recruiting trainees overall to your IGERT during this reporting period. (Radio buttons labeled Productive, Somewhat Productive, Not Productive, and NA are provided for each of the following recruiting practices.] • Relationships with NSF programs that can provide an undergraduate pool of potential IGERT trainees (e.g., REUs, NSF Centers) • Relationships with faculty and programs at other academic institutions • Use of recruiting resources on your campus (e.g., career	 Trainees had internships (off-campus, research, educational, and/or work experiences) in nonacademic settings (e.g., industry, government). Trainees had professional interactions other than internships with nonacademic employers (e.g., industry, government) in order to learn about career opportunities and requirements. Trainees communicated, worked, or collaborated with scientists of other nationalities. Other preparation for careers in academia (Please specify): Other preparation for nonacademic careers (e.g., industry, government) (Please specify): No components of Trainee Preparation for STEM Careers applied during this 			
timelines for the recruitment and retention of trainees, including specifics for broadening participation of groups underrepresented in science and engineering? Yes/No If no, please explain: Regardless of your response to the previous question, please describe up to three of the promising tactics and results for recruiting qualified trainees to your IGERT project during this reporting period. (Responses are limited to 1,000 characters for each tactic and result.) X [The PI has an option to make each Tactic and Result pair available for use on the IGERT Resource Center Web site, viewable by the general public.] Please describe the extent to which each of the following practices been productive for recruiting trainees overall to your IGERT during this reporting period. [Radio buttons labeled Productive, Somewhat Productive, Not Productive, and NA are provided for each of the following recruiting practices.] • Relationships with NSF programs that can provide an undergraduate pool of potential IGERT trainees (e.g., REUs, NSF Centers) • Relationships with faculty and programs at other academic institutions • Use of recruiting resources on your campus (e.g., career	3d. Tactics for Recruitment and Broadening Participation			
Regardless of your response to the previous question, please describe up to three of the promising tactics and results for recruiting qualified trainees to your IGERT project during this reporting period. (Responses are limited to 1,000 characters for each tactic and result.) [The PI has an option to make each Tactic and Result pair available for use on the IGERT Resource Center Web site, viewable by the general public.] Please describe the extent to which each of the following practices been productive for recruiting trainees overall to your IGERT during this reporting period. [Radio buttons labeled Productive, Somewhat Productive, Not Productive, and NA are provided for each of the following recruiting practices.] • Relationships with NSF programs that can provide an undergraduate pool of potential IGERT trainees (e.g., REUs, NSF Centers) • Relationships with faculty and programs at other academic institutions • Use of recruiting resources on your campus (e.g., career	timelines for the recruitment and retention of trainees, including specifics for broadening participation of groups underrepresented in science and engineering?		X	
to three of the promising tactics and results for recruiting qualified trainees to your IGERT project during this reporting period. (Responses are limited to 1,000 characters for each tactic and result.) [The PI has an option to make each Tactic and Result pair available for use on the IGERT Resource Center Web site, viewable by the general public.] Please describe the extent to which each of the following practices been productive for recruiting trainees overall to your IGERT during this reporting period. [Radio buttons labeled Productive, Somewhat Productive, Not Productive, and NA are provided for each of the following recruiting practices.] • Relationships with NSF programs that can provide an undergraduate pool of potential IGERT trainees (e.g., REUs, NSF Centers) • Relationships with faculty and programs at other academic institutions • Use of recruiting resources on your campus (e.g., career				
[The PI has an option to make each Tactic and Result pair available for use on the IGERT Resource Center Web site, viewable by the general public.] Please describe the extent to which each of the following practices been productive for recruiting trainees overall to your IGERT during this reporting period. [Radio buttons labeled Productive, Somewhat Productive, Not Productive, and NA are provided for each of the following recruiting practices.] • Relationships with NSF programs that can provide an undergraduate pool of potential IGERT trainees (e.g., REUs, NSF Centers) • Relationships with faculty and programs at other academic institutions • Use of recruiting resources on your campus (e.g., career	to three of the promising tactics and results for <u>recruiting</u> qualified			
use on the IGERT Resource Center Web site, viewable by the general public.] Please describe the extent to which each of the following practices been productive for recruiting trainees overall to your IGERT during this reporting period. [Radio buttons labeled Productive, Somewhat Productive, Not Productive, and NA are provided for each of the following recruiting practices.] • Relationships with NSF programs that can provide an undergraduate pool of potential IGERT trainees (e.g., REUs, NSF Centers) • Relationships with faculty and programs at other academic institutions • Use of recruiting resources on your campus (e.g., career	(Responses are limited to 1,000 characters for each tactic and result.)		X	
productive for recruiting trainees overall to your IGERT during this reporting period. [Radio buttons labeled Productive, Somewhat Productive, Not Productive, and NA are provided for each of the following recruiting practices.] • Relationships with NSF programs that can provide an undergraduate pool of potential IGERT trainees (e.g., REUs, NSF Centers) • Relationships with faculty and programs at other academic institutions • Use of recruiting resources on your campus (e.g., career	use on the IGERT Resource Center Web site, viewable by the general			
undergraduate pool of potential IGERT trainees (e.g., REUs, NSF Centers) Relationships with faculty and programs at other academic institutions Use of recruiting resources on your campus (e.g., career	productive for recruiting trainees <u>overall</u> to your IGERT during this reporting period. [Radio buttons labeled Productive, Somewhat Productive, Not Productive, and NA are provided for each of the		X	X
service office, graduate studies office)	 undergraduate pool of potential IGERT trainees (e.g., REUs, NSF Centers) Relationships with faculty and programs at other academic institutions Use of recruiting resources on your campus (e.g., career 			
Collaboration with other IGERT projects on recruitment	,			

Common Collection Categories Questions	Staff and Project Participant Characteristics	Project Implementation Characteristics	Project Outputs
 Use of professional meetings, conferences, associations to communicate with, reach out to, and market to potential IGERT Trainees Other (Please specify): 			
Please describe the extent to which each of the following practices have been productive for recruiting <u>underrepresented minority</u> and <u>women</u> trainees to your IGERT project during this reporting period. [Two sets (one for Underrepresented Minorities and another for Women) of radio buttons labeled Productive, Somewhat Productive, Not Productive, and NA are provided for each of the following recruiting practices.] • Relationships with NSF programs that specifically focus on broadening participation of underrepresented minorities or women in STEM (e.g., LSAMP, AGEP, TCUP, or ADVANCE) • Use of resources on your campus (e.g., academic advancement programs, offices for campus diversity, or minority and women's student groups) • Interaction with professional associations, organizations, or committees serving underrepresented minorities communities or women (e.g., National Action Council for Minorities in Engineering, Society of Women Engineers, committees in professional societies focused on minority communities and women) • Bridge programs for entering graduate students • Mentoring or advisement arrangements that take advantage of underrepresented minorities or women faculty or graduate students on campus • Relationships with faculty and programs at minority-serving academic institutions (e.g., historically black colleges and universities, Hispanic-serving institutions, or tribal colleges). {This item is marked N/A for women.} • Collaboration with other IGERT projects on recruitment • Other (Please specify):		X	X
3e. International Opportunities			
According to NSF records, you project [has/does not have] explicit funding for an international component. If you think this is incorrect, please contact ICF International.		X	
Briefly describe up to three training experiences or components that			X

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Questions	Staff and Project Participant Characteristics	Project Implementation Characteristics	Project Outputs
provided exceptional "added value" for preparing IGERT trainees to be successful in international/global science and engineering. NOTE: This can include U.Sbased experiences.			
(Responses are limited to 1,000 characters for each training experience or component.)			
[The PI has an option to make each training experience or component available for use on the IGERT Resource Center Web site, viewable by the general public.]			
Responding to the remaining questions is mandatory only for IGERT projects with explicit funding for the international component.		3 7	
Is international participation required for all trainees in your IGERT project? Yes/No		X	
Did one or more trainees from your IGERT project engage in an international experience through the project during this reporting period? Yes/No			
If yes, please click on the "Add an international experience" button below to describe the experience and the country. NOTE: You will need to repeat this step for each country in which trainees engaged in an international experience during this reporting period.			
For each country: Country [dropdown list]			
Trainee(s) involved [one checkbox per trainee]		X	
 Which of the following international actions or work in this country involved trainees? (Mark all that apply) Trainees attended conferences/workshops. Trainees undertook coursework/training. 			
 Trainees worked, conducted research/field work, or interned in industrial settings. Trainees worked, conducted research/field work, or interned in academic settings. 			
 Trainees worked, conducted research/field work, or interned in other settings (e.g., national laboratories, nongovernmental organizations). Other international actions/work (Please specify): 			37
Identify the value/opportunities for faculty that resulted from the International experiences of the IGERT project. (Mark all that apply)			X
international experiences of the folicit projects (which all that apply)	1		l

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Faculty have developed new collaborations.			
 Faculty have developed new access to facilities/skills. 			
• Faculty have developed new opportunities for research/education/training.			
• Other (Please specify):			
Briefly describe up to three research or educational achievements			
resulting from the international component. Each achievement may			
involve a single trainee or a group of trainees.			
(Responses are limited to 1,000 characters for each research or			X
educational achievement.)			_ .
[The PI has an option to make each research or educational achievement			
available for use on the IGERT Resource Center Web site, viewable by			
the general public.]			
3f. Partnership Collaborations			
Were there active partnerships/collaborations outside of your university			
through your IGERT project during this reporting period?			
Yes/No			
NOTE: Examples include other academic institutions (including IGERT			
partners), industrial or business partners, government agencies and			
laboratories, and nonprofit organizations. If you are in doubt about		X	
whether to include information on a specific relationship between your		71	
IGERT project and another organization, please include the information.			
If yes, please specify one of the four partnership/collaboration types			
[academic, corporate, government, other], and click on the "go" button			
to input information on the partnership/collaboration. You will need to			
repeat this step for each additional partnership/collaboration to report.			
Provide for each Partner			
Institution/Agency/Business/Organization name		X	
If partner is an academic institution, please mark all that apply.		X	
Ph.Dgranting institution			
Non-Ph.Dgranting institution			
 Minority-serving institution K-12 institution 			
Foreign-based institution			
If partner is a government agency, please select the best option.			
U.S. Federal agency or department			
U.S. Federal laboratory or research facility			
Foreign institution or foreign government/agency (If foreign, please indicate)			
country [dropdown list])			

If partner is a corporate or industrial partner: Please select the descriptions that best fit the corporate or industrial partner. (Select one) Large company Small to mid-size company Start-up company Corporate headquarters (Select one) U.Sbased company Foreign-based company Sector Please select the sector that best describes the business of your corporate partner: Goods Producing OAgriculture, forestry, fishing and hunting OConstruction Manufacturing Mining Service Providing OEducation services Finance and banking services Health and healthcare-related services Health and healthcare-related services Finance and bospitality services Professional, scientific, and business services Professional, scientific, and business services Professional, scientific, and business services Manufacturing is selected, please select a Manufacturing Subsector: Chemical products (basic/specialty; polymers/plastics; consumer products)	Staff and Project Participant Characteristics	Characteristics Project Implementation Characteristics	Project Outputs
Please select the descriptions that best fit the corporate or industrial partner. (Select one) Large company Small to mid-size company Start-up company Corporate headquarters (Select one) U.Sbased company Foreign-based company Sector Please select the sector that best describes the business of your corporate partner: Goods Producing Agriculture, forestry, fishing and hunting Construction Manufacturing Mining Service Providing Education services Finance and banking services Health and healthcare-related services Leisure and hospitality services Finance and banking services Description Leisure and hospitality services Professional, scientific, and business services Public administration Other services If Manufacturing is selected, please select a Manufacturing Subsector: Chemical products (basic/specialty; polymers/plastics; consumer products)	Staff Parti Char	Charac Project Implem Charac	Proje
industrial partner. (Select one) Large company Small to mid-size company Start-up company Corporate headquarters (Select one) U.Sbased company Foreign-based company Sector Please select the sector that best describes the business of your corporate partner: Goods Producing O Agriculture, forestry, fishing and hunting O Construction O Manufacturing O Mining Service Providing O Education services O Finance and banking services O Health and healthcare-related services O Leisure and hospitality services O Leisure and hospitality services O Professional, scientific, and business services O Public administration O Other services If Manufacturing is selected, please select a Manufacturing Subsector: Chemical products (basic/specialty; polymers/plastics; consumer products)			
 Small to mid-size company Start-up company Corporate headquarters (Select one) U.Sbased company Foreign-based company Sector Please select the sector that best describes the business of your corporate partner: Goods Producing Agriculture, forestry, fishing and hunting Construction Manufacturing Mining Service Providing Education services Finance and banking services Health and healthcare-related services Information, communications, media services Leisure and hospitality services Professional, scientific, and business services Public administration Other services If Manufacturing is selected, please select a Manufacturing Subsector: Chemical products (basic/specialty; polymers/plastics; consumer products) 			
 U.Sbased company Foreign-based company Sector Please select the sector that best describes the business of your corporate partner: Goods Producing Agriculture, forestry, fishing and hunting Construction Manufacturing Mining Service Providing Education services Finance and banking services Health and healthcare-related services Information, communications, media services Leisure and hospitality services Professional, scientific, and business services Public administration Other services If Manufacturing is selected, please select a Manufacturing Subsector: Chemical products (basic/specialty; polymers/plastics; consumer products) 			
Please select the sector that best describes the business of your corporate partner: • Goods Producing • Agriculture, forestry, fishing and hunting • Construction • Manufacturing • Mining • Service Providing • Education services • Finance and banking services • Health and healthcare-related services • Information, communications, media services • Leisure and hospitality services • Professional, scientific, and business services • Public administration • Other services If Manufacturing is selected, please select a Manufacturing Subsector: • Chemical products (basic/specialty; polymers/plastics; consumer products)			
 Goods Producing Agriculture, forestry, fishing and hunting Construction Manufacturing Mining Service Providing Education services Finance and banking services Health and healthcare-related services Information, communications, media services Leisure and hospitality services Professional, scientific, and business services Public administration Other services If Manufacturing is selected, please select a Manufacturing Subsector: Chemical products (basic/specialty; polymers/plastics; consumer products) 			
 Mining Service Providing Education services Finance and banking services Health and healthcare-related services Information, communications, media services Leisure and hospitality services Professional, scientific, and business services Public administration Other services If Manufacturing is selected, please select a Manufacturing Subsector: Chemical products (basic/specialty; polymers/plastics; consumer products) 			
 Health and healthcare-related services Information, communications, media services Leisure and hospitality services Professional, scientific, and business services Public administration Other services If Manufacturing is selected, please select a Manufacturing Subsector: Chemical products (basic/specialty; polymers/plastics; consumer products) 			
 O Public administration O Other services If Manufacturing is selected, please select a Manufacturing Subsector: Chemical products (basic/specialty; polymers/plastics; consumer products) 			
Subsector:Chemical products (basic/specialty; polymers/plastics; consumer products)			
 Chemical products (basic/specialty; polymers/plastics; consumer products) 			
Computer and electronic products			
 Electrical equipment, appliance, and components Food, beverage, and tobacco products Mineral and metal products 			
 Petroleum and coal products Pharmaceutical and biotechnological products Textiles and apparel 			
 Transportation Wood products, paper products, printing Other manufacturing Funding Arrangement for this Partner (Mark all that apply): 		X	

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Questions	Staff and Project Participant Characteristics	Project Implementation Characteristics	Project Outputs
 Subaward to partner IGERT lead institution provides subaward to partner for the purposes of providing IGERT traineeship stipends to trainees. IGERT project provides subaward to partner for purposes of providing services or support to IGERT Trainees. 			
 Partner provides funding Partner provides funding to the IGERT project specifically for IGERT Trainees in any way (e.g., internships, travel, training). Partner provides funding to the IGERT project for research, curriculum, or other project activities, but not directly for trainees. 			
Other No funding/direct financial interaction is involved in this partnership. Other (Please specify):			
 Activities for this Partner/Institution (Mark all that apply) Facilities: IGERT trainees of faculty use a partner organization's facilities for project activities. Collaborative Research/Teaching: Partner organization's personnel work with IGERT project staff on collaborative research/teaching. Personnel Exchange: IGERT Trainees, faculty and/or partner organization personnel use each other's facilities or work at each other's sites on an ad hoc or as-need basis. Internships: IGERT Trainees work in a partner's facilities specifically as interns. 		X	
Accomplishments and Outcomes			
Please describe one key accomplishment or outcome (not activity) of this partnering arrangement for this reporting period.			X
(Response limited to 1,000 characters.)			$egin{array}{c c} oldsymbol{\Lambda} \end{array}$
[The PI has an option to make the accomplishment or outcome available for use on the IGERT Resource Center Web site, viewable by the general public.]			
4. Project Evaluation and Institutional Impacts			
4a. Project Evaluation			
Do you have an overall plan with milestones and timelines for measuring progress toward attaining key IGERT project goals? Yes/No			X
If your IGERT project paid for professional evaluation services external to the IGERT institution or used expertise internal to your institution to			X

Common Collection Categories Questions	Staff and Project Participant Characteristics	Project Implementation Characteristics	Project Outputs
aid in the evaluation process, please share their contact information.			
Organization/individual name Address E-mail address Phone Web site Was this an external evaluation service provider?			
Yes/No Please describe a key insight, and your response to it, if any, that has			
been identified through assessment and evaluation during this reporting period.			X
(Response is limited to 1,000 characters each for the insight/learning and corresponding response.			
4b. Institutional Impacts			
Please consider your responses to the following in light of changes/impacts that have occurred in your institution as a result of your IGERT during this reporting period. (Mark all that apply) The institution(s) involved in your IGERT project has/have been successful in obtaining large- scale Federal grants (e.g., STC, ERC, MRSEC). Interdisciplinary/multidisciplinary courses have been developed for IGERT Trainees and Associates. Interdisciplinary/multidisciplinary courses are being delivered to IGERT Trainees and Associates. Interdisciplinary/multidisciplinary courses that have been developed for IGERT are being delivered to non-IGERT students. New certificate or degree programs have been developed and are available on the IGERT campus(es). Department curriculum or policy changes took place to emphasize or require interdisciplinary/multidisciplinary preparation for all graduate students. Institutional changes that support and encourage team multidisciplinary/interdisciplinary course development and teaching have occurred. Institutional changes that support and encourage team-based graduate student learning and assessment have occurred. Institutional changes that support and encourage graduate students to gain laboratory and research experiences across disciplines have occurred. Institutional changes incorporating improved recruitment and retention policies and practices for underrepresented groups and women based on IGERT have occurred.			X
• Other (Please specify): Please describe a demonstrable institutional change, if any, that has occurred during this reporting period due to IGERT.			X

Common Collection Categories Questions	Staff and Project Participant Characteristics	Project Implementation Characteristics	Project Outputs
(Response is limited to 1,000 characters.)			
[The PI has an option to make the demonstrable institutional change available for use on the IGERT Resource Center Web site, viewable by the general public.]			
5. Publications/Presentations			
5a. Journal Articles in Referred Publications			
Did your IGERT project have any journal articles published in referred publications during the current reporting period? Yes/No			
If yes, please provide citations.			X
STEP 1: Prepare a list of citations for these articles.			
STEP 2: Upload the citations list in .txt format.			
5b. Journal Articles in Non-Referred Publications			
Did your IGERT project have any journal articles published in non- referred publications during the current reporting period? Yes/No			
If yes, please provide citations.			X
STEP 1: Prepare a list of citations for these articles.			
STEP 2: Upload the citations list in .txt format. 5c. Books			
Did your IGERT project have any books published during the current reporting period? Yes/No			
If yes, please provide citations.			X
STEP 1: Prepare a list of citations for these books.			
STEP 2: Upload the citations list in .txt format.			
5d. Book Chapters			
Did your IGERT project have any book chapters published during the current reporting period? Yes/No			X

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Questions	Staff and Project Participant Characteristics	Project Implementation Characteristics	Project Outputs
If yes, please provide citations.			
STEP 1: Prepare a list of citations for these book chapters.			
STEP 2: Upload the citations list in .txt format.			
5e. Patent Applications Did your IGERT project submit any patent applications during the current reporting period? Yes/No			
If yes, please provide citations.			X
STEP 1: Prepare a list of citations for these patent applications.			
STEP 2: Upload the citations list in .txt format 5f. Patents Awarded			
Was your IGERT project awarded any patents during the current reporting period? Yes/No			
If yes, please provide citations.			X
STEP 1: Prepare a list of citations for these awarded patents.			
STEP 2: Upload the citations list in .txt format			
5g. Conference Publications Did your IGERT project have any conference publications during the current reporting period? Yes/No			
If yes, please provide citations.			X
STEP 1: Prepare a list of citations for these conference publications.			
STEP 2: Upload the citations list in .txt format			
5h. Conference Presentations Did your IGERT project have any conference publications during the			X
current reporting period? Yes/No			
If yes, please provide citations.			

Common Collection Categories Questions	Participant Characteristics	Project Implementation Characteristics	Project Outputs
STEP 1: Prepare a list of citations for these conference presentations.			
STEP 2: Upload the citations list in .txt format			

IGERT: Crosswalk – Trainee Survey

Common Collection Categories Questions	Staff and Project Participant Characteristics ⁴	Project Implementation Characteristics ⁵	Project Outputs ⁶
1. About You			
1a. Name and Contact Info			
Name: (First, Middle Initial, Last, Previous Surname)			
Your Current Address: Institution Name Department Current Address Current City Current State ZIP Code Phone Extension Fax E-mail Address Web URL			
Your Permanent Contact Information (Voluntary) Your Social Security Number Personal E-mail Address Who will know how to reach you in the future? Please provide the name and address of a person likely to know how to reach you in 3 years. Contact Person's Name Relationship to You Contact Person's Address Contact Person's City Contact Person's State Contact Person's ZIP Code Contact Person's Country Contact Person's Phone Number Extension Contact Person's E-mail Address	X		

⁴ Elements of these characteristics include name, address, date of birth, gender, ethnicity, race, disability status, class, major, grade point average, yearly fellowship or stipend amount, and project role.

⁵ Elements of these characteristics include sources and amount of funds, fellowships, scholarships, traineeships, partnerships, training, and research methods.

⁶ Elements of these characteristics include research findings, publications, presentations, degrees granted, and educational materials.

Common Collection Categories Questions	Staff and Project Participant Characteristics	Project Implementation Characteristics	Project Outputs
1b. Demographics			
Ethnicity (Choose one): Hispanic or Latino Not Hispanic or Latino Not Reported	X		
Race (Mark all that apply):	X		
Gender (Choose one):	X		
 Disability Status (Choose one): Yes (Check Yes if any of the following apply): Deaf or serious difficulty hearing Blind or serious difficulty seeing even when wearing glasses Serious difficulty walking or climbing stairs Other serious disability related to a physical, mental, or emotional condition No Do not wish to provide 	X		
Citizenship (Choose one): U.S. Citizen/U.S. National U.S. Permanent Resident Date Permanent Resident Alien Status Was Granted (MM/YY) Other Non-U.S. Citizen Not Reported	X		
State or Country of Birth (Choose one): State/U.S. Territory of Birth [dropdown list] Or Country of Birth (if not U.S. or U.S. Territory) [dropdown list]	X		
1c. Your Major and Interests			
Your Current Major Major Idrandovin list!	v		
Major [dropdown list] ⁷	X		

List of Academic Disciplines:

 Chemistry – Analytical
 Chemistry – Bio-inorganic
 Chemistry – Bio-organic
 Chemistry – Biophysical
 Chemistry – Environmental
 Chemistry – Inorganic
 Chemistry – Materials

Common Collection Categories Questions	Staff and Project Participant Characteristics	Project Implementation Characteristics	Project Outputs
Degree sought (current):	X		
Master of Arts (MA)			
Master of Science (MS)			

- Chemistry Physical
- Chemistry Polymer
- Chemistry Theoretical
- Chemistry Other (Please specify):
- Computer Science/Information Systems/Engineering Artificial Intelligence (including Robotics, Computer Vision, and Human Language Processing)
- Computer Science/Information Systems/Engineering Computer Architecture and Grids
- Computer Science/Information Systems/Engineering Computer Science Languages and Systems
- Computer Science/Information Systems/Engineering Computer Science Theoretical Foundations
- Computer Science/Information Systems/Engineering Database Information Retrieval and Web Search
- Computer Science/Information Systems/Engineering Graphics and Visualization
- Computer Science/Information Systems/Engineering Human Computer Interaction
- Computer Science/Information Systems/Engineering Information Security and Assurance
- Computer Science/Information Systems/Engineering Information Technology and Organizations
- Computer Science/Information Systems/Engineering Networks and Communications
- Computer Science/Information Systems/Engineering Operating Systems and Middleware
- Computer Science/Information Systems/Engineering Scientific Computing and Informatics
- Computer Science/Information Systems/Engineering Software Engineering
- Computer Science/Information Systems/Engineering Other (Please specify): _____
- Engineering Aeronautical and Aerospace
- Engineering Agricultural
- Engineering Bioengineering
- Engineering Biomedical
- Engineering Chemical
- Engineering Civil
- Engineering Computer Engineering
- Engineering Electrical and Electronic
- Engineering Energy
- Engineering Engineering Mechanics
- Engineering Engineering Science
- Engineering Environmental
- Engineering Industrial
- Engineering Materials
- Engineering Mechanical
- Engineering Metallurgical
- Engineering Nuclear
- Engineering Ocean
- Engineering Petroleum
- Engineering Polymer
- Engineering Systems Engineering
- Engineering Other (Please specify): ___
- Geosciences Aeronomy
- Geosciences Atmospheric Chemistry
- Geosciences Chemical Oceanography
- Geosciences Climate Dynamics
- Geosciences Geochemistry

Questions	Common Collection Categories	Staff and Project Participant Characteristics	Project Implementation Characteristics	Project Outputs
Doctorate (Ph.D.)Professional Degree (MD, JD etc)				
Other Postbacc. Degree				

- Geosciences Geology
- Geosciences Geophysics
- Geosciences Hydrologic Sciences
- Geosciences Large Scale Dynamics Meteorology
- Geosciences Magnetospheric Physics
- Geosciences Marine Geology and Geophysics
- Geosciences Mesoscale Dynamic Meteorology
- Geosciences Paleoclimate
- Geosciences Paleontology
- Geosciences Physical Meteorology
- Geosciences Physical Oceanography
- Geosciences Solar-Terrestrial
- Geosciences Other (Please specify):
- Life Sciences Agriculture
- Life Sciences Agronomy
- Life Sciences Anatomy
- Life Sciences Animal Behavior
- Life Sciences Animal Science
- Life Sciences Biochemistry
- Life Sciences Biological Oceanography
- Life Sciences Biophysics
- Life Sciences Botany (including Plant Physiology)
- Life Sciences Cell Biology
- Life Sciences Computational Biology
- Life Sciences Developmental Biology
- Life Sciences Ecology
- Life Sciences Ecosystem Ecology
- Life Sciences Entomology
- Life Sciences Environmental Sciences
- Life Sciences Evolutionary Biology
- Life Sciences Fish and Wildlife
- Life Sciences Forestry
- Life Sciences Genetics
- Life Sciences Horticulture
- Life Sciences Immunology
- Life Sciences Marine Biology
- Life Sciences Microbiology
- Life Sciences Molecular Biology
- Life Sciences Neurosciences
- Life Sciences Nutrition
- Life Sciences Pharmacology
- Life Sciences Physiology
- Life Sciences Plant Pathology
- Life Sciences Population and Community Ecology
- Life Sciences Soil Science
- Life Sciences Structural Biology

Common Collection Categories Questions	Staff and Project Participant Characteristics	Project Implementation Characteristics	Project Outputs
Your Research Interests			
Provide a brief description of your research interest/topic		X	

- Life Sciences Virology
- Life Sciences Zoology
- Life Sciences Other (Please specify): _
- Mathematical Sciences Algebra or Number Theory
- Mathematical Sciences Analysis
- Mathematical Sciences Applications of Mathematics (including Biometrics and Biostatistics)
- Mathematical Sciences Geometry
- Mathematical Sciences Logic or Foundations of Mathematics
- Mathematical Sciences Operations Research
- Mathematical Sciences Probability and Statistics
- Mathematical Sciences Topology
- Mathematical Sciences Other (Please specify):
- Physics and Astronomy Astronomy
- Physics and Astronomy Astrophysics
- Physics and Astronomy Atomic and Molecular
- Physics and Astronomy Condensed Matter Physics
- Physics and Astronomy Nuclear
- Physics and Astronomy Optics
- Physics and Astronomy Particle Physics
- Physics and Astronomy Physics of Fluids
- Physics and Astronomy Plasma
- Physics and Astronomy Solid State
- Physics and Astronomy Theoretical Physics
- Physics and Astronomy Other (Please specify):
- Psychology Cognitive
- Psychology Cognitive Neuroscience
- Psychology Computational Psychology
- Psychology Developmental
- Psychology Experimental or Comparative
- Psychology Industrial/Organizational
- Psychology Neuropsychology
- Psychology Perception and Psychophysics
- Psychology Personality and Individual Differences
- Psychology Physiological
- Psychology Psycholinguistics
- Psychology Quantitative
- Psychology Social
- Psychology Other (Please specify):
- Social Sciences Archaeology
- Social Sciences Cliometric History
- Social Sciences Communications
- Social Sciences Cultural Anthropology
- Social Sciences Decision Making
- Social Sciences Demography
- Social Sciences Econometrics
- Social Sciences Economics (except Business Administration)

Common Collection Categories Questions	Staff and Project Participant Characteristics	Project Implementation Characteristics	Project Outputs
(Responses are limited to 300 characters.)			
Does your research involve any of the following? (Mark all that apply) Bioinformatics Biological evolution and development Biotechnology Civil infrastructure monitoring and improvement Climate change: impacts and factors Computational science and engineering Device development Energy: alternate and renewable resources and conservation Entrepreneurialism Human, social, and community sciences Imaging Materials science and engineering Materials science end engineering Nanoscience: engineering and technology Sensing, signals, and signal processing Sustainability: ecology and the environment Water resources: conservation, utilization, and quality Other (Please specify):		X	
1d. IGERT Advisors			
Who are your IGERT advisors?			
(Mark all that apply) [Checkbox for each IGERT advisor as entered via PI survey.]	X		

- Social Sciences Geography
- Social Sciences History of Science
- Social Sciences International Relations
- Social Sciences Law and Social Science
- Social Sciences Linguistics Anthropology
- Social Sciences Linguistics
- Social Sciences Medical Anthropology
- Social Sciences Philosophy of Science
- Social Sciences Physical Anthropology
- Social Sciences Political Science
- Social Sciences Public Policy
- Social Sciences Risk Analysis
- Social Sciences Science Policy
- Social Sciences Sociology (except Social Work)
- Social Sciences Urban and Regional Planning
- Social Sciences Other (Please specify): _
- STEM Education and Learning Research Engineering Education
- STEM Education and Learning Research Mathematics Education
- STEM Education and Learning Research Science Education
- STEM Education and Learning Research Technology Education
- STEM Education and Learning Research Other (Please specify):
- Other (Please specify):

Common Collection Categories	Staff and Project Participant Characteristics	Project Implementation Characteristics	Project Outputs
Questions	Staf Par Cha	Project Implem Charac	Pro
(For each advisor) How often was this person involved in your IGERT activities? • Always • Often • Sometimes • Never		X	
1e. Graduation Plans Expected or Actual Graduation Date (mm/yyyy)	X		X
If you have graduated, or you expect to graduate within 1 year, what type of employment opportunities are you pursuing? (Mark all that apply) [Indicate top choice if more than one opportunity is selected.] Government Postdoctoral Full-time position Part-time position Industry/Business Postdoctoral Full-time position Part-time position Part-time position Educational Institution (college, university, or K-12) Postdoctoral Tenure-track faculty Nontenure-track faculty Staff Nonprofit Postdoctoral	A		X
Full-time position			
Part-time position Self-Employed/Entrepreneur			
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2. Prior Experiences (Funded Trainees only) High School Background	X		
Name of high school/secondary school/institution from which you graduated/received a diploma			
School type (Select one): • Public • Private • Other (Please specify):			
City U.S. State/U.S. Territory ZIP Code			

Common Collection Categories Questions	Staff and Project Participant Characteristics	Project Implementation Characteristics	Project Outputs
Non-U.S. high school country [dropdown list]			
Undergraduate Background Prior to IGERT Traineeship			
Institution name If other institution, please specify: City State Non-U.S. undergraduate country [dropdown list] When did you receive your first undergraduate degree (mm/yyyy) Undergraduate Degree Type (Choose one) • Bachelor of Arts (BA) • Bachelor of Science (BS) • Other (please specify): Major [dropdown list] • Bachelor of Science (BS) • Other (please specify): For double majors, select second major [dropdown list]	X		
Post-Undergraduate Degree Prior to IGERT Traineeship Did you obtain a post-undergraduate degree prior to becoming an IGERT trainee? Yes/No If Yes, provide the following information. Institution name City State Non-U.S. post-undergraduate country [dropdown list] Major [dropdown list] Department [dropdown list] **	X		

⁸ List of Academic Disciplines:

- Chemistry Analytical
 Chemistry Bio-inorganic
 Chemistry Bio-organic

- Chemistry Bio-organic Chemistry Biophysical Chemistry Environmental Chemistry Inorganic Chemistry Materials

- Chemistry Physical
- Chemistry Polymer Chemistry Theoretical

Questions	Common Collection Categories	Staff and Project Participant Characteristics	Project Implementation Characteristics	Project Outputs
Post-undergraduate degree type				
Master of Arts (M.A.)				
Master of Science (M.S.)				

- Chemistry Other (Please specify): _____
- Computer Science/Information Systems/Engineering Artificial Intelligence (including Robotics, Computer Vision, and Human Language Processing)
- Computer Science/Information Systems/Engineering Computer Architecture and Grids
- Computer Science/Information Systems/Engineering Computer Science Languages and Systems
- Computer Science/Information Systems/Engineering Computer Science Theoretical Foundations
- Computer Science/Information Systems/Engineering Database Information Retrieval and Web Search
- Computer Science/Information Systems/Engineering Graphics and Visualization
- Computer Science/Information Systems/Engineering Human Computer Interaction
- Computer Science/Information Systems/Engineering Information Security and Assurance
- Computer Science/Information Systems/Engineering Information Technology and Organizations
- Computer Science/Information Systems/Engineering Networks and Communications
- Computer Science/Information Systems/Engineering Operating Systems and Middleware
- Computer Science/Information Systems/Engineering Scientific Computing and Informatics
- $\bullet \quad \text{Computer Science/Information Systems/Engineering} \text{Software Engineering} \\$
- Computer Science/Information Systems/Engineering Other (Please specify): _____
- Engineering Aeronautical and Aerospace
- Engineering Agricultural
- Engineering Bioengineering
- Engineering Biomedical
- Engineering Chemical
- Engineering Civil
- Engineering Computer Engineering
- Engineering Electrical and Electronic
- Engineering Energy
- Engineering Engineering Mechanics
- Engineering Engineering Science
- Engineering Environmental
- Engineering Industrial
- Engineering Materials
- Engineering Mechanical
- Engineering Metallurgical
- Engineering Nuclear
- Engineering Ocean
- Engineering Petroleum
- Engineering Polymer
- Engineering Systems Engineering
- Engineering Other (Please specify):
- Geosciences Aeronomy
- Geosciences Atmospheric Chemistry
- Geosciences Chemical Oceanography
- Geosciences Climate Dynamics
- Geosciences Geochemistry
- Geosciences Geology
- Geosciences Geophysics
- Geosciences Hydrologic Sciences

Questions	Common Collection Categories	Staff and Project Participant Characteristics	Project Implementation Characteristics	Project Outputs
•	Doctorate (Ph.D.)			
•	Professional Degree (MD, JD, etc.)			
•	Other Postbacc. Degree			

- Geosciences Large Scale Dynamics Meteorology
- Geosciences Magnetospheric Physics
- Geosciences Marine Geology and Geophysics
- Geosciences Mesoscale Dynamic Meteorology
- Geosciences Paleoclimate
- Geosciences Paleontology
- Geosciences Physical Meteorology
- Geosciences Physical Oceanography
- Geosciences Solar-Terrestrial
- Geosciences Other (Please specify):
- Life Sciences Agriculture
- Life Sciences Agronomy
- Life Sciences Anatomy
- Life Sciences Animal Behavior
- Life Sciences Animal Science
- Life Sciences Biochemistry
- Life Sciences Biological Oceanography
- Life Sciences Biophysics
- Life Sciences Botany (including Plant Physiology)
- Life Sciences Cell Biology
- Life Sciences Computational Biology
- Life Sciences Developmental Biology
- Life Sciences Ecology
- Life Sciences Ecosystem Ecology
- Life Sciences Entomology
- Life Sciences Environmental Sciences
- Life Sciences Evolutionary Biology
- Life Sciences Fish and Wildlife
- Life Sciences Forestry
- Life Sciences Genetics
- Life Sciences Horticulture
- Life Sciences Immunology
- Life Sciences Marine Biology
- Life Sciences Microbiology
- Life Sciences Molecular Biology
- Life Sciences Neurosciences
- Life Sciences Nutrition
- Life Sciences Pharmacology
- Life Sciences Physiology
- Life Sciences Plant Pathology
- Life Sciences Population and Community Ecology
- Life Sciences Soil Science
- Life Sciences Structural Biology
- Life Sciences Virology
- Life Sciences Zoology
- Life Sciences Other (Please specify): _____

Common Collection Categories Questions	Staff and Project Participant Characteristics	Project Implementation Characteristics	Project Outputs
When did you receive your post-undergraduate degree (mm/yyyy)			

- Mathematical Sciences Algebra or Number Theory
- Mathematical Sciences Analysis
- Mathematical Sciences Applications of Mathematics (including Biometrics and Biostatistics)
- Mathematical Sciences Geometry
- Mathematical Sciences Logic or Foundations of Mathematics
- Mathematical Sciences Operations Research
- Mathematical Sciences Probability and Statistics
- Mathematical Sciences Topology
- Mathematical Sciences Other (Please specify):
- Physics and Astronomy Astronomy
- Physics and Astronomy Astrophysics
- Physics and Astronomy Atomic and Molecular
- Physics and Astronomy Condensed Matter Physics
- Physics and Astronomy Nuclear
- Physics and Astronomy Optics
- Physics and Astronomy Particle Physics
- Physics and Astronomy Physics of Fluids
- Physics and Astronomy Plasma
- Physics and Astronomy Solid State
- Physics and Astronomy Theoretical Physics
- Physics and Astronomy Other (Please specify):
- Psychology Cognitive
- Psychology Cognitive Neuroscience
- Psychology Computational Psychology
- Psychology Developmental
- Psychology Experimental or Comparative
- Psychology Industrial/Organizational
- Psychology Neuropsychology
- Psychology Perception and Psychophysics
- Psychology Personality and Individual Differences
- Psychology Physiological
- Psychology Psycholinguistics
- Psychology Quantitative
- Psychology Social
- Psychology Other (Please specify): _____
- Social Sciences Archaeology
- Social Sciences Cliometric History
- Social Sciences Communications
- Social Sciences Cultural Anthropology
- Social Sciences Decision Making
- Social Sciences Demography
- Social Sciences Econometrics
- Social Sciences Economics (except Business Administration)
- Social Sciences Geography
- Social Sciences History of Science
- Social Sciences International Relations

Common Collection Categories Questions	Staff and Project Participant Characteristics	Project Implementation Characteristics	Project Outputs
Employment Prior to IGERT Traineeship Were you employed in the public or private sector for 1 or more years after receiving your first undergraduate degree and prior to becoming an IGERT trainee? (Do not include employment as a research assistant or teaching assistant while pursuing a master's degree.) Yes/No Total number of years (equal to or greater than 1 year, to the nearest year) you were employed in the public or private sector after receiving your first undergraduate degree and prior to becoming an IGERT trainee. 1 year 2 years 3 years 4 years 5 years More than 5 years	X		
3. Achievements			
3a. Publications, patents, and presentations provided by the PI [The list of publications, patents, and presentations that were entered via the PI survey that included this trainee as an author are presented for the trainee to review.]			X

_	Social Sciences	Largand	Cocial	Science
•	Social Sciences	– Law and	Social	Science

[•] Social Sciences – Linguistics Anthropology

[•] Social Sciences – Linguistics

Social Sciences – Medical Anthropology

Social Sciences – Philosophy of Science

[•] Social Sciences – Physical Anthropology

[•] Social Sciences – Political Science

[•] Social Sciences – Public Policy

[•] Social Sciences – Risk Analysis

[•] Social Sciences – Science Policy

Social Sciences – Sociology (except Social Work)

[•] Social Sciences – Urban and Regional Planning

[•] Social Sciences – Other (Please specify): _

[•] STEM Education and Learning Research – Engineering Education

[•] STEM Education and Learning Research – Mathematics Education

STEM Education and Learning Research – Science Education

STEM Education and Learning Research – Technology Education

[•] STEM Education and Learning Research – Other (Please specify):

Other (Please specify):

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Questions	Staff and Project Participant Characteristics	Project Implementation Characteristics	Project Outputs
3b. Fellowships, scholarships, and grants other than IGERT	S	4 1 O	<u> </u>
Provide for each fellowship, scholarship, and grant other than			
IGERT received during the current reporting period.			
			X
Title of fellowship, scholarship, or grant [dropdown list]			Λ
If other fellowship, please specify:			
Proposal Title			
Year Awarded			
Awarding Agency/Organization			
3c. Other Honors and Recognition			
Provide for each honor and recognition received during the current			
reporting period.			
			X
Title of honor or recognition [dropdown list]			
If other title, please specify:			
Year			
Society/Granting Organization			
3d. Please describe what you consider to be your major research or			
education accomplishment made possible as a result of your			
participation in your IGERT project during this reporting year.		X	X
(D			
(Responses are limited to 1,000 characters.)			
4 Decearch Drangaction (Funded Trainees only)			
4. Research Preparation (Funded Trainees only)			
Please indicate which of the following activities you engaged in			
during this reporting period. (Mark all that apply)Undertook formal coursework/training in research methods, practices and			
instrumentation in your primary discipline equivalent to traditional graduate			
students			
Had practical, hands-on laboratory and/or field experience in conducting			
research across the breadth of disciplines in the IGERT program			
Undertook formal coursework/training across the breadth of disciplines oncompassed by the ICERT project.		X	
encompassed by the IGERT projectUndertook formal coursework/training in both ethical conduct of research			
and ethical conduct related to the themes encompassed by your IGERT			
project			
• Other preparation to conduct high-quality research (Please specify):			
Please check here if you were not engaged in any of the activities listed			
above during this reporting period.			
How many courses/seminars did you take in disciplines outside of		37	
your primary discipline during this reporting period?		X	
Dago 26 of 60	l	1	

Common Collection Categories	Staff and Project Participant Characteristics	Project Implementation Characteristics	Project Outputs
How many courses/seminars did you take in your primary discipline this reporting period?		X	
How many courses/seminars did you take that specifically covered interdisciplinary topics related to your IGERT during this reporting period?		X	X
 5. Professional Skills (Funded Trainees only) Please indicate which of the following activities you engaged in during this reporting period. (Mark all that apply) Undertook coursework/training that included regular faculty critique of and feedback on professional writing Authored, submitted, or published research papers in refereed journals = Undertook coursework/training (e.g., brown bags, seminars) that included regular critique of and feedback on professional speaking/presentation skills Made presentations at academic/scientific professional conferences or meetings Presented results from IGERT activities to professional, nonacademic audiences (e.g., industry, government) Undertook coursework/training to develop media-based or information technology-based communication skills Produced multimedia materials, Web sites, or other cyber-enabled tools to communicate the results of IGERT activities to external audiences Used multimedia materials, Web sites, or other cyber-enabled tools as part of the interdisciplinary scientific training and collaboration Received training in team-building and project management skills Received training in effective time and task management Participated as a members of teams engaged in joint research, education, and/or outreach efforts Led teams engaged in research, education, and/or outreach efforts Other preparation in professional skills development (Please specify): Please check here if you were not engaged in any of the activities listed above during this reporting period 		X	
6. Career Preparation (Funded Trainees only) Please describe what you consider to be the most beneficial IGERT training experience or component that has prepared you to be successful in a science or engineering career in an international/global setting. Note: This can include U.Sbased experiences. (Responses are limited to 1,000 characters.)			X
Please indicate which of the following activities you engaged in during this reporting period. (Mark all that apply) Received training or instruction (e.g., courses, workshops) in effective		X	

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Questions	aff art ha	roj Inpl Hau	J
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teaching practices and student mentoring			
Developed and presented course and/or curriculum materials			
Served as a mentor to others (e.g., graduate students, undergraduates, Note that it is a served as a mentor to other (e.g., graduate students, undergraduates,			
laboratory technicians) Received training/mentoring in grant proposal preparation			
Authored/co-authored and submitted grant proposals			
Received training/instruction on the interaction between academic research			
and industrial technical requirements			
Received training/instruction for applying your research to address public			
policy concerns or issues Had an internship (an off-campus, research, educational and/or work			
Had an internship (an off-campus, research, educational and/or work experience) in a nonacademic setting (e.g., industry, government)			
Had professional interactions other than internships with nonacademic			
employers (e.g., industry, government) in order to learn about career			
opportunities and requirements			
Communicated, worked, or collaborated with scientists of other nationalities			
Other preparation for careers in academia (Please specify): Other preparation for popagademic careers (e.g., industry, government)			
Other preparation for nonacademic careers (e.g., industry, government) (Please specify):			
Please check here if you were not engaged in any of the activities listed			
above during this reporting period			
7. Internships			
Have you taken part in any internships lasting 1 month or more			
with industries or businesses, government laboratories or agencies,			
or nonprofit organizations during this current reporting period?		377	
Yes/No		X	
If Voc. the respondent can specify up to four interpoline. The			
If Yes, the respondent can specify up to four internships. The			
following data are collected for each internship.		v	
Company/Agency Name		X	
Duration [dropdown list (1-52 weeks)]		X	
Setting (Choose one):			
Industry/businessNonprofit organization			
Government laboratory		X	
Public sector agency			
• Other			
Location (Choose one):			
U.S. Location			
City			
State/U.S. Territory		X	
Foreign Location If the Control of the Contro			
If non-U.S. internship, please specify country			
[dropdown list]			*7
Please indicate the internship contributions that have prepared you			X

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Categories Questions	Staff and Project Participant Characteristics	Project Implementation Characteristics	Project Outputs
for your career during this reporting period (Mark all that apply) Received training/instruction on the interaction between academic research and industrial technical requirements Received training/instruction for applying your research to address public policy concerns or issues Engaged in professional interactions other than internships with nonacademic employers (e.g., industry, government) in order to learn about career opportunities and requirements Communicated, worked, or collaborated with scientists of other nationalities Other preparation for nonacademic careers (e.g., industry, government)			
(Please specify):			
Please identify the name of the company, agency, or organization at which the internship was served and describe what you consider to be the most beneficial professional or career-related aspect.		X	X
(Responses are limited to 1,000 characters.)			
8. International Experiences			
Did you have an international experiences this year? Yes/No			
If Yes, the respondent can specify up to five international experiences. The following data are collected for each international experience:		X	
Was this international experience related to your IGERT research? Yes/No		X	
International experience duration [dropdown list (1-52 weeks)]		X	
Please identify the primary country in which the international activities occurred. [dropdown list]		X	
What activities were you engaged in during your international experience? (Mark all that apply) • Attended conferences/workshops outside the United States • Undertook coursework/training outside the United States • Worked, conducted research/fieldwork, or interned outside the United States • Other (Please specify):		Х	
Were you formally prepared for your international experience? Yes/No		X	
If yes, what experiences were included in the preparation for your international experience? (Mark all that apply) • How to work in a foreign laboratory/field work • Graduate education/education/laboratory differences in country to be visited • Language		X	

Common			
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Categories	Staff and Project Participant Characteristics	Project Implementation Characteristics	Project Outputs
Questions	Staff Parti Cha	Project Implem Charac	Proj
 Cultural differences Learning about the area Other (Please specify):			
What did you accomplish during your international experience? (Mark all that apply)			
Awards/honors/recognitions			
Broader impacts			X
• Invention/patent			
PresentationsPublications			
Other (Please specify):			
If you took part in international activities during this reporting			
period, please describe what you consider to be the most beneficial			
professional or career-related aspect of these activities.			X
Francisco of the second of the			
(Responses are limited to 1,000 characters.)			
9. Comments (Funded Trainees only)			
Benefit of IGERT			
In the text box below, please describe what you consider to be the			
most beneficial aspect of being an IGERT trainee during this			
reporting period. This might include: 1) an opportunity you had as			
a result of being an IGERT trainee that has significantly affected			
your professional development, 2) an aspect of the project that			3 7
provided exceptional added value to your educational experience,			X
or 3) an aspect of the project that has been especially successful			
and/or represents a real change from the way that graduate students			
are usually educated at your institution.			
(Responses are limited to 1,000 characters.)			
Opportunity for Improvement			
Please describe what you consider to be the most important			
opportunity for improvement in the IGERT program with which			X
you are associated.			Λ
(Responses are limited to 1,000 characters.)			
10. Training Confirmation (Funded Trainees only)			
Training Confirmation			
How many hours spent per week did you spend on programmatic		\mathbf{v}	
activities?		X	
Did you participate in regular training throughout the year?		X	
Yes/No		Λ	

Common Collection Categories Questions	Staff and Project Participant Characteristics	Project Implementation Characteristics	Project Outputs
Describe training you received (Responses are limited to 1,000 characters.)		X	
How frequently did you receive training? (Choose one) Weekly Bimonthly Monthly Other (Please specify):		X	
Funding Confirmation What was your stipend amount? (Choose one) • \$30,000 gross annually (\$2,500 gross per month) • Other gross amount per year (Please specify:		X	
How does your traineeship stipend compare to stipends received by regular teaching or research assistants at your organization? (Choose one) Greater than others Equal to others Less than others		X	
NSF provides your affiliated organization with a \$10,500 cost of education allowance with a 1-year traineeship in lieu of all required tuition and fees. How much would it cost if you had to pay the normal charges yourself?		X	
[This question is only asked of funded trainees.] Did you have to pay any tuition or fees this year? Yes/No If Yes, how much did you have to pay?		X	

IGERT: Number of Respondents, Frequency of Response, and Annual Hour Burden

The estimated average number of annual respondents is 513 (24 award PIs and 489 IGERT trainees and associates), with an estimated annual response burden total of 2,342 hours. The Web-based collection is an annual activity of the IGERT program. Data are collected from each award with one PI and multiple trainees/associates reporting for each award. Awards not in their final year submit an annual report, while awards in their final year submit both an annual report and a final report. PIs complete the PI questionnaire (both for the annual and final reports). All IGERT trainees are required to complete the IGERT trainee questionnaire (for the annual report only), and the associates are requested but not required to complete the IGERT associate questionnaire (again, for the annual report only). The last new awards began in 2013. Awards are generally for 5 years but can receive (potentially multiple) no-cost extensions; no-cost extensions are decided by NSF on an annual basis. No new awards will be added to the population, thus, the number of respondents will decline over time. The estimated average annual hour burden per respondent was determined using the burden information reported by respondents for the last three collection cycles. For the PI respondents, the total burden hours reported for both annual and final reports over the last three collection cycles was divided by the total number of awards reporting over that period, thus the burden estimate accounts for both annual and final reports.

The burden estimates for each type of respondent are outlined below:

Respondent Type	Estimated Average Annual No. of Respondents	Estimated Average Annual Burden Hours Per Respondent	Estimated Annual Burden Hour Total
Award PIs	24	67	1,608
IGERT trainees and associates	489	1.5	734
Total	513		2,342

IGERT: Hour Burden Estimates by Each Form and Aggregate Hour Burdens

As mentioned above respondents are award PIs and IGERT trainees and associates. The estimated total annual response burden is 2,342 hours. There is a different Web-based form for each respondent type. The annual burden by form was calculated as follows:

Form Type	Respondent Type	No. of Respondents	Burden Hours Per Respondent	Total Burden Hours
Principal Investigator form	Award PIs	24	67	1,608
Trainee and associate form	IGERT trainees and associates	489	1.5	734
Total		513		2,342

IGERT: Estimates of Annualized Cost to Respondents for the Hour Burdens

The overall annualized cost to the respondents is estimated to be \$84,237. The following table shows the annualized estimate of cost to respondents. The estimated hourly rate for PIs is based on a report from the American Association of University Professors, "The Annual Report on the Economic Status of the Profession, 2017–18," Survey Report Table 1. According to this report, the average salary across all academic ranks and across all types of doctoral-granting institutions (public, private-independent, religiously affiliated) was \$95,176. The hourly rate for trainees and associates is based on their annual stipend of \$30,000. Both of these figures were then divided by the number of standard annual work hours (2,080) to determine an average hourly rate for each respondent type. Those rates and the corresponding total annual costs are indicated in the table below:

Respondent Type	No. of Respondents	Burden Hours Per Respondent	Average Hourly Rate	Estimated Annual Cost
Award PIs	24	67	\$46	\$73,968
IGERT trainees and associates	489	1.5	\$14	\$10,269
Total	513			\$84,237

IGERT: Estimates of Costs to the Federal Government

Computing the annualized cost to NSF for the IGERT data collection was done by taking the projected budget for the next three years and calculating the cost for each of the following operational activities involved in producing, maintaining, and conducting the data collection:

Operational Activities	Cost Over Three Years
System Development (includes initial development of the database	
and Web-based application and later changes requested by the	\$140,571
program, e.g., increased reporting tools, additional validations)	
System Maintenance, Updates, and Technical Support (system	
requires updates each year before opening the collection;	\$253,028
maintenance is required to keep the system current with technology,	\$233,020
e.g., database servers, operating systems)	
Data Collection Opening and Support (e.g., online and telephone	
support to respondents and contacting respondents to encourage	\$168,685
completion of the questions), Reporting (as defined by the DGE), and	\$100,003
Follow-up Activities (e.g., providing data to other consultants)	
Three-Year Total for All Operational Activities	\$562,284

The annual cost was computed as one-third of the total three-year cost; therefore, the annualized cost to NSF for the IGERT data collection is \$187,428.

IGERT: Questions – PI Survey

1. Project Summary

1a. Project Characteristics

Please indicate up to three NSF directorates that most closely correspond to your interdisciplinary research theme.

- BIO-Biological Sciences
- CISE–Computer and Information Science and Engineering
- ENG–Engineering
- GEO-Geosciences
- MPS–Mathematical and Physical Sciences
- OCI–Office of Cyberinfrastructure
- OPP–Office of Polar Programs
- SBE–Social, Behavioral, and Economic Sciences

Did you support any IGERT trainees during the current project year?

Yes/No

Considering the IGERT trainees as a group, how do they compare with graduate students you usually see in terms of their academic/research potential?

- Far superior to our usual graduate students
- Somewhat better than our usual graduate students
- About the same as our usual graduate students
- Somewhat less promising or less successful than our usual graduate students
- Much less promising or less successful than our usual students

How do trainees in your program earn their doctoral degrees? (Mark all that apply)

- Trainees earn their degrees from the IGERT multidisciplinary/interdisciplinary program.
- Trainees earn their degrees from traditional single-discipline departments.
- Trainees earn their degrees from multidisciplinary/interdisciplinary programs, centers or units other than IGERT.
- Other (certificates, etc.) (Please specify): ___

Does your IGERT project include undergraduate involvement?

Yes/No

If yes, were NSF IGERT funds used for undergraduate involvement?

Yes/No

Does your IGERT project include postdoctoral involvement?

Yes/No

If yes, were NSF IGERT funds used for postdoctorate involvement?

Yes/No

Estimate the amount of funds from the current year of IGERT support that will be carried over to the next year as of the project anniversary date (the date when your annual report will be due in Research.gov):

Total funds carried over to the next year

If carryover funds are entered (i.e., greater than 0), please provide an explanation for these funds

Participant support costs carried over to the next year

Stipends carried over to the next year

Describe how the Competitive Innovation Incentive Fund (CIIF) was used, barriers to implementation of CIIF training activities, and notable CIIF training successes.

1b. Research Achievements

Please describe up to three interdisciplinary research achievements/discoveries/outcomes that demonstrate how your IGERT project has been particularly effective in attaining the interdisciplinary research goals you set out to achieve during this reporting period. Please report achievements that include tangible outcomes such as publication, patent, discovery, or

preliminary findings. Individual trainee achievements should be reserved for the "Trainee Achievements" section.

(Responses are limited to 1,000 characters for each achievement.)

[The PI has an option to make each achievement available for use on the IGERT Resource Center Web site, viewable by the general public.]

1c. Education Achievements

Please describe up to three achievements/outcomes that illustrate exceptional added value to the trainees' educational experience during this reporting period. Please focus on overall programmatic achievements, rather than achievements of individual trainees.

(Responses are limited to 1,000 characters for each achievement.)

[The PI has an option to make each achievement available for use on the IGERT Resource Center Web site, viewable by the general public.]

1d. Trainee Achievements

Please describe up to three research or education achievements/outcomes, involving either a single trainee or a group of trainees made possible through the participation of trainees in your IGERT project during this reporting period.

(Responses are limited to 1,000 characters for each achievement.)

[The PI has an option to make each achievement available for use on the IGERT Resource Center Web site, viewable by the general public.]

1e. Barriers to Implementation

Please identify and describe up to three key barriers (e.g., programmatic, institutional) you have encountered in the process of implementing your IGERT project during this reporting period. For each barrier identified, briefly describe how your project has responded.

(Responses are limited to 1,000 characters each for each issue/challenge and corresponding response.)

1f. Outreach Activities

Please report any outreach activities involving your IGERT project that occurred during this reporting period. Outreach activities include your IGERT project, IGERT faculty, and/or IGERT trainees being featured in the media (e.g., TV, radio, magazine articles) or talks, presentations, or workshops given to school groups, civic groups, non-scientifically-based professional groups, members of the government, or the general public.

Please mark the checkbox if you do not have any Outreach Activities to report.

For each outreach activity:

Provide a short title for this activity

Name of the media outlet or organization for which outreach was done

Date of the activity

Type of activity

Museum

- Media
- K-12
- Undergraduate
- Government
- Informal Science
- Other

Briefly describe this activity, including the names of the IGERT individuals involved.

1g. NSF Highlights

Each year, NSF program officers are asked to write Highlights (formerly known as "Nuggets") on the results of NSF research and education awards. These Highlights are used to help assess NSF's performance in attaining the strategic outcome goals outlined in the NSF Strategic Plan and to share successes with various groups.

Your Highlight will probably relate to one of the achievements reported in sections 1b, c or d, but in greater detail and with images. When writing your Highlight, please clearly describe how the interdisciplinary theme of your IGERT project made this work possible, as distinct from what might have been possible through only a single-discipline research or education grant. Also, please write the Highlight such that a general audience can grasp the importance, value and merit of the research, the educational outreach, or whatever results you are highlighting.

Starting with a statement of what the research team has achieved and why it is important and then explaining what problem is being solved, what obstacle is being overcome, or what new discovery was made is a great way to write a Highlight for maximum effectiveness.

Reporting Highlights is related to requirements under the Government Performance and Results Act (GPRA).

Please respond only if you have something relevant and significant to share for this reporting period.

Guidelines for Writing Highlights

- Write for a general audience. Common uses for Highlights include the following: program monitoring by NSF staff; reporting to Congress on NSF goal attainment; demonstrating achievements in NSF's annual Budget Requests, Performance and Accountability Reports (PAR), and other documents; and providing information for the general public. Well-written, informative Highlights submitted here may serve several purposes and thereby eliminate duplicate writing efforts later.
- **Include images.** NSF Highlights and images are used not only by the Advisory Committee for GRPA Performance Assessment, but also for illustration, in the NSF's annual Budget Requests, Performance and Accountability Reports (e.g., PAR), and other documents. Clear, colorful images (e.g., pictures, graphs, charts) greatly enhance the value of Highlights.
- **Provide sufficient information** to describe the research and the results so that the IGERT Program Officers can determine whether a specific objective (and therefore, outcome goal) was met and its most valuable use.
- Start with a statement of what the research team has achieved, and go on to explain why it solves a problem or overcomes an obstacle. Do not start with a lengthy explanation of the problem to be solved. Example: "Prof. Blivett and her team at the University of Eutaw have discovered/achieved/developed XYZ. This was hard/remarkable/useful/world-changing because ... or this seminal development could lead to practical applications in ..."
- **Include the location and/or lead institution** for the research and the names of all principal investigators.
- **Include an explicit statement that NSF is supporting this work,** e.g., "NSF-funded researchers at Stanford University have demonstrated ..." or "Astronomers working at NSF's Gemini Observatory have discovered."
- **Spell out NSF program names.** Be sure to spell out acronyms.

For each Highlight:

Provide a descriptive title for this Highlight.

If a video is associated with the Highlight, please provide a URL link to the video.

Please indicate the primary and secondary NSF strategic goals that best describe the Highlight

[For each NSF goal listed, the PI selects either primary or secondary]

Describe the achievement/result that is the Highlight.

How does this activity address the primary and secondary NSF strategic goals that you marked above?

[The PI has an option to make each Highlight available for use on the IGERT Resource Center Web site, viewable by the general public.]

For each Highlight Image:

Provide a descriptive title for this image.

Upload image file (bmp, gif, jpeg, pdf, png, or tiff only)

Does NSF have permission to use this image? Yes/No

Image credits (Required only if you answered "yes" to the previous question)

Description of image (optional)

2. IGERT Project Personnel, Trainee, and Associate Details

Provide for each Principal Investigator

Mark the checkbox if [PI Name] served as PI for the current project year

Name: First, Middle Initial, Last, Previous Surname

Contact Information:

Institution Name

Title

- Professor
- Associate Professor
- Instructor
- Other

Department at Institution

Address at Institution

Institution's City

Institution's State

ZIP Code

Phone

Extension

Fax

E-mail Address

Web URL

Ethnicity (Choose one):

- Hispanic or Latino
- Not Hispanic or Latino
- Not Reported

Race (Mark all that apply):

- American Indian or Alaska Native
- Asian
- Black or African American
- Native Hawaiian or other Pacific Islander
- White
- Not Reported

Gender (Choose one):

- Male
- Female
- Not Reported

Disability Status (Choose one):

- Yes (Check Yes if any of the following apply):
 - Deaf or serious difficulty hearing
 - Blind or serious difficulty seeing even when wearing glasses
 - Serious difficulty walking or climbing stairs
 - Other serious disability related to a physical, mental, or emotional condition
- No
- Do not wish to provide

Citizenship (Choose one):

- U.S. Citizen/U.S. National
- U.S. Permanent Resident
- Other Non-U.S. Citizen
- Not Reported

Provide for each IGERT Project Coordinator

Name: First, Middle Initial, Last, Previous Surname

Contact Information:

Institution Name

Title

- Professor
- Associate Professor
- Instructor
- Other

Department

Current Address

Current City

Current State

ZIP Code

Phone

Extension

Fax

E-mail Address

Web URL

Provide for each IGERT Co-PI and Trainee/Associate Advisor

Name: First, Middle Initial, Last, Previous Surname

Mark the checkbox if the individual served as co-PI or trainee/associate advisor for the current project year.

Role in Project (Mark all that apply):

Co-PI

Trainee/Associate Advisor and/or Faculty Participant Contact Information: Institution Name

Title

- Professor
- Associate Professor
- Instructor
- Other

Department at Institution

Address at Institution

Institution's City

Institution's State

ZI Code

Phone

Extension

Fax

E-mail Address

Web URL

Current IGERT Advisor

Yes/No

Ethnicity (Choose one):

- Hispanic or Latino
- Not Hispanic or Latino
- Not Reported

Race (Mark all that apply):

- American Indian or Alaska Native
- Asian
- Black or African American
- Native Hawaiian or other Pacific Islander
- White
- Not Reported

Gender (Choose one):

- Male
- Female
- Not Reported

Disability Status (Choose one):

- Yes (Check Yes if any of the following apply):
 - Deaf or serious difficulty hearing
 - Blind or serious difficulty seeing even when wearing glasses
 - Serious difficulty walking or climbing stairs
 - Other serious disability related to a physical, mental, or emotional condition
- No
- Do not wish to provide

Citizenship (Choose one):

- U.S. Citizen/U.S. National
- U.S. Permanent Resident
- Other Non-U.S. Citizen
- Not Reported

Provide for each IGERT Trainee and Associate

Name: First, Middle Initial, Last, Previous Surname

E-mail Address

Verify IGERT-required Citizenship/Residency Status (Trainees only)

- Yes, the trainee is a U.S. citizen/U.S. national or U.S. permanent resident
- No, the trainee does not meet IGERT citizenship Requirement. If you answered No, please provide an explanation.

GRE Scores:

Verbal

Quantitative

Analytical

Subject (Select GRE Subject)

- Biochemistry, Cell & Molecular Biology
- Biology
- Chemistry
- Computer Science
- Economics
- Education
- Engineering
- Geology
- History
- Literature in English
- Mathematics
- Music
- Physics
- Political Science
- Psychology
- Revised Music
- Sociology

When did the trainee/associate first enroll in graduate study at this institution? (mm/yyyy)

When did the trainee first began receiving IGERT funding? (Trainees only) (mm/yyyy)

When did the associate first began participating in the IGERT project? (Associates only) (mm/yyyy)

Funding (Trainees only)

Indicate whether this trainee is a Funded Trainee or a Formerly Funded Trainee for this reporting period. (Note: A trainee who received IGERT funding for any or all of this reporting period is a Funded Trainee.)

Funded Trainee

Number of months funded

• Formerly Funded Trainee (Trainees only)

Has the student been engaged in IGERT activities, research, education, or training during this reporting period?

Yes/No

Please describe the current situation that best describes this IGERT trainee/associate. (Select one)

- Has not yet graduated, but is pursuing a Ph.D. at your institution.
- Has not yet graduated, but is pursuing a master's degree at your institution.
- Has graduated from your institution with a Ph.D. (Enter month/year of completion) (mm/yyyy)
- Has graduated from your institution with a master's degree. (Enter month/year completed) (mm/yyyy)
- Has left your institution without earning degree. (Enter month/year departed) (mm/yyyy)

3. Project Features

3a. Trainee Preparation in Multidisciplinary/Interdisciplinary Research

Briefly describe up to three of the promising practices for preparing IGERT trainees to conduct collaborative research that transcends traditional disciplinary boundaries.

(Responses are limited to 1,000 characters for each practice.)	
Measure:	
Formal evaluation	
Informal surveys	
Group feedback	

[The PI has an option to make each practice and measure pair available for use on the IGERT Resource Center Web site, viewable by the general public.]

Mark the following components of multidisciplinary/interdisciplinary research preparation that apply to the <u>majority</u> of IGERT trainees involved in your project during this reporting period. (Mark all that apply)

- Trainees undertook formal coursework/training in research methods, practices, and instrumentation in their primary discipline equivalent to traditional graduate students.
- Trainees had practical, hands-on laboratory and/or field experience in conducting research across the breadth of disciplines in the IGERT program.
- Trainees undertook formal coursework/training across the breadth of disciplines encompassed by the IGERT project.
- Trainees undertook formal coursework/training in both the ethical conduct of research and ethical conduct related to the themes encompassed by your IGERT project.
- Other preparation to conduct high-quality research. (Please specify): ________
- No components of Trainee Preparation in Multidisciplinary/Interdisciplinary Research applied during this reporting period.

3b. Trainee Preparation in Professional Skills

Quantitative measure
Other (Please specify): ___

Briefly describe up to three formal training activities (e.g., coursework, workshop, professional speaker) for preparing IGERT trainees to effectively communicate science to general audiences.

(Responses are limited to 1,000 characters for each activity.)

[The PI has an option to make each activity available for use on the IGERT Resource Center Web site, viewable by the general public.]

Mark the following components of professional skills development that apply to the <u>majority</u> of IGERT trainees in your project during this reporting period. (Mark all that apply)

- Trainees undertook coursework/training that included regular faculty critique of and feedback on professional writing.
- Trainees authored, submitted, or published research papers in refereed journals.
- Trainees took coursework/training (e.g., brown bags, seminars) that included regular critique of and feedback on professional speaking/presentation skills.
- Trainees made presentations at academic/scientific professional conferences or meetings.
- Trainees presented results from their IGERT to professional, nonacademic audiences (e.g., industry, government).
- Trainees undertook coursework/training to develop media-based or information technology-based communication skills.
- Trainees produced multimedia materials, Web sites, or other cyber-enabled tools to communicate the results of their IGERT activities to external audiences.
- Trainees used multimedia materials, Web sites, or other cyber-enabled tools as part of their interdisciplinary scientific training and collaboration.
- Trainees received training in team-building and project management skills.
- Trainees received training in effective time and task management.
- Trainees participated as members of teams engaged in joint research, education, and/or outreach
 efforts.
- Trainees **led teams** engaged in research, education, and/or outreach efforts.

- Other preparation in professional skills development (Please specify):
- No components of Trainee Preparation in Professional Skills applied during this reporting period.

3c. Trainee Preparation for STEM Careers

Mark the following components that apply to the <u>majority</u> of IGERT trainees in your project during this reporting period. (Mark all that apply)

- Trainees received training or instruction (e.g., courses, workshops) in effective teaching practices.
- Trainees developed and presented course and/or curriculum materials.
- Trainees served as mentors to others (e.g., graduate students, undergraduates, laboratory technicians).
- Trainees received training/mentoring in grant proposal preparation.
- Trainees authored/coauthored and submitted grant proposals.
- Trainees received training/instruction on the interaction between academic research and industrial technical requirements.
- Trainees received training/instruction for applying their research to address public policy concerns or issues.
- Trainees had internships (off-campus, research, educational, and/or work experiences) in nonacademic settings (e.g., industry, government).
- Trainees had professional interactions other than internships with nonacademic employers (e.g., industry, government) in order to learn about career opportunities and requirements.
- Trainees communicated, worked, or collaborated with scientists of other nationalities.
- Other preparation for careers in academia (Please specify):
- Other preparation for nonacademic careers (e.g., industry, government) (Please specify):
- No components of Trainee Preparation for STEM Careers applied during this reporting period.

3d. Tactics for Recruitment and Broadening Participation

Do you have an overall, active plan with a specific set of goals and timelines for the recruitment and retention of trainees, including specifics for broadening participation of groups underrepresented in science and engineering?

Yes/No

Regardless of your response to the previous question, please describe up to three of the promising tactics and results for <u>recruiting</u> qualified trainees to your IGERT project during this reporting period.

(Responses are limited to 1,000 characters for each tactic and result.)

[The PI has an option to make each Tactic and Result pair available for use on the IGERT Resource Center Web site, viewable by the general public.]

Please describe the extent to which each of the following practices been productive for recruiting trainees <u>overall</u> to your IGERT during this reporting period. [Radio buttons labeled Productive, Somewhat Productive, Not Productive, and NA are provided for each of the following recruiting practices.]

- Relationships with NSF programs that can provide an undergraduate pool of potential IGERT trainees (e.g., REUs, NSF Centers)
- Relationships with faculty and programs at other academic institutions
- Use of recruiting resources on your campus (e.g., career service office, graduate studies office)
- Collaboration with other IGERT projects on recruitment
- Use of professional meetings, conferences, associations to communicate with, reach out to, and market to potential IGERT Trainees
- Other (Please specify):

Please describe the extent to which each of the following practices have been productive for

recruiting <u>underrepresented minority</u> and <u>women</u> trainees to your IGERT project during this reporting period.

[Two sets (one for Underrepresented Minorities and another for Women) of radio buttons labeled Productive, Somewhat Productive, Not Productive, and NA are provided for each of the following recruiting practices.]

- Relationships with NSF programs that specifically focus on broadening participation of underrepresented minorities or women in STEM (e.g., LSAMP, AGEP, TCUP, or ADVANCE)
- Use of resources on your campus (e.g., academic advancement programs, offices for campus diversity, or minority and women's student groups)
- Interaction with professional associations, organizations, or committees serving underrepresented minorities communities or women (e.g., National Action Council for Minorities in Engineering, Society of Women Engineers, committees in professional societies focused on minority communities and women)
- Bridge programs for entering graduate students
- Mentoring or advisement arrangements that take advantage of underrepresented minorities or women faculty or graduate students on campus
- Relationships with faculty and programs at minority-serving academic institutions (e.g., historically black colleges and universities, Hispanic-serving institutions, or tribal colleges). {This item is marked N/A for women.}
- Collaboration with other IGERT projects on recruitment
- Other (Please specify):

3e. International Opportunities

According to NSF records, you project [has/does not have] explicit funding for an international component. If you think this is incorrect, please contact ICF International.

Briefly describe up to three training experiences or components that provided exceptional "added value" for preparing IGERT trainees to be successful in international/global science and engineering. NOTE: This can include U.S.-based experiences.

(Responses are limited to 1,000 characters for each training experience or component.)

[The PI has an option to make each training experience or component available for use on the IGERT Resource Center Web site, viewable by the general public.]

Responding to the remaining questions is mandatory only for IGERT projects with explicit funding for the international component.

Is international participation required for all trainees in your IGERT project? Yes/No

Did one or more trainees from your IGERT project engage in an international experience through the project during this reporting period?

Yes/No

If yes, please click on the "Add an international experience" button below to describe the experience and the country. NOTE: You will need to repeat this step for each country in which trainees engaged in an international experience during this reporting period.

п 1 .		
For each country:		

Country [dropdown list]

Trainee(s) involved [one checkbox per trainee]

Which of the following international actions or work in this country involved trainees? (Mark all that apply)

- Trainees attended conferences/workshops.
- Trainees undertook coursework/training.
- Trainees worked, conducted research/field work, or interned in industrial settings.
- Trainees worked, conducted research/field work, or interned in academic settings.
- Trainees worked, conducted research/field work, or interned in other settings (e.g., national laboratories, nongovernmental organizations).
- Other international actions/work (Please specify): _______

Identify the value/opportunities for faculty that resulted from the International experiences of the IGERT project. (Mark all that apply)

- Faculty have developed new collaborations.
- Faculty have developed new access to facilities/skills.
- Faculty have developed new opportunities for research/education/training.
- Other (Please specify): ___

Briefly describe up to three research or educational achievements resulting from the international component. Each achievement may involve a single trainee or a group of trainees.

(Responses are limited to 1,000 characters for each research or educational achievement.)

[The PI has an option to make each research or educational achievement available for use on the IGERT Resource Center Web site, viewable by the general public.]

3f. Partnership Collaborations

Were there active partnerships/collaborations outside of your university through your IGERT project during this reporting period?

Yes/No

NOTE: Examples include other academic institutions (including IGERT partners), industrial or business partners, government agencies and laboratories, and nonprofit organizations. If you are in doubt about whether to include information on a specific relationship between your IGERT project and another organization, please **include** the information.

If yes, please specify one of the four partnership/collaboration types [academic, corporate, government, other], and click on the "go" button to input information on the partnership/collaboration. You will need to repeat this step for each additional partnership/collaboration to report.

Provide for each Partner

Institution/Agency/Business/Organization name

If partner is an academic institution, please mark all that apply.

- Ph.D.-granting institution
- Non-Ph.D.-granting institution
- Minority-serving institution
- K-12 institution
- Foreign-based institution

If partner is a government agency, please select the best option.

- U.S. Federal <u>agency or department</u>
- U.S. Federal **laboratory or research facility**

Foreign institution or foreign government/agency (If foreign, please indicate country [dropdown list])

If partner is a corporate or industrial partner:

Please select the descriptions that **best** fit the corporate or industrial partner. (Select one)

- Large company
- Small to mid-size company
- Start-up company

Corporate headquarters (Select one)

- U.S.-based company
- Foreign-based company

Sector

Please select the sector that best describes the business of your corporate partner:

- Goods Producing
 - o Agriculture, forestry, fishing and hunting
 - o Construction
 - Manufacturing
 - o Mining

• Service Providing

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

If Manufacturing is selected, please select a Manufacturing Subsector:

- Chemical products (basic/specialty; polymers/plastics; consumer products)
- Computer and electronic products
- Electrical equipment, appliance, and components
- Food, beverage, and tobacco products
- Mineral and metal products
- Petroleum and coal products
- Pharmaceutical and biotechnological products
- Textiles and apparel
- Transportation
- Wood products, paper products, printing
- Other manufacturing

Funding Arrangement for this Partner (Mark all that apply):

Subaward to partner

- IGERT lead institution provides subaward to partner for the purposes of providing IGERT traineeship stipends to trainees.
- IGERT project provides subaward to partner for purposes of providing services or support to IGERT Trainees.

Partner provides funding

- Partner provides funding to the IGERT project specifically for IGERT Trainees in any way (e.g., internships, travel, training).
- Partner provides funding to the IGERT project for research, curriculum, or other project activities, but not

directly for trainees.

Other

- No funding/direct financial interaction is involved in this partnership.
- Other (Please specify):

Activities for this Partner/Institution (Mark all that apply)

- Facilities: IGERT trainees of faculty use a partner organization's facilities for project activities.
- **Collaborative Research/Teaching:** Partner organization's personnel work with IGERT project staff on collaborative research/teaching.
- **Personnel Exchange:** IGERT Trainees, faculty and/or partner organization personnel use each other's facilities or work at each other's sites on an ad hoc or as-need basis.
- **Internships:** IGERT Trainees work in a partner's facilities specifically as interns.

Accomplishments and Outcomes

Please describe one **key** accomplishment or outcome (not activity) of **this** partnering arrangement for this reporting period.

(Response limited to 1,000 characters.)

[The PI has an option to make the accomplishment or outcome available for use on the IGERT Resource Center Web site, viewable by the general public.]

4. Project Evaluation and Institutional Impacts

4a. Project Evaluation

Do you have an overall plan with milestones and timelines for measuring progress toward attaining key IGERT project goals?

Yes/No

If your IGERT project paid for professional evaluation services external to the IGERT institution or used expertise internal to your institution to aid in the evaluation process, please share their contact information.

Organization/individual name

Address

E-mail address

Phone

Web site

Was this an external evaluation service provider?

Yes/No

Please describe a key insight, and your response to it, if any, that has been identified through assessment and evaluation during this reporting period.

(Response is limited to 1,000 characters each for the insight/learning and corresponding response.

4b. Institutional Impacts

Please consider your responses to the following in light of changes/impacts that have occurred in your institution as a result of your IGERT during this reporting period. (Mark all that apply)

- The institution(s) involved in your IGERT project has/have been successful in obtaining large- scale Federal grants (e.g., STC, ERC, MRSEC).
- Interdisciplinary/multidisciplinary courses have been developed for IGERT Trainees and Associates.
- Interdisciplinary/multidisciplinary courses are being delivered to IGERT Trainees and Associates.

- Interdisciplinary/multidisciplinary courses that have been developed for IGERT are being delivered to non-IGERT students.
- New certificate or degree programs have been developed and are available on the IGERT campus(es).
- Department curriculum or policy changes took place to emphasize or require interdisciplinary/multidisciplinary preparation for all graduate students.
- Institutional changes that support and encourage team multidisciplinary/interdisciplinary course development and teaching have occurred.
- Institutional changes that support and encourage team-based graduate student learning and assessment have occurred.
- Institutional changes that support and encourage graduate students to gain laboratory and research experiences across disciplines have occurred.
- Institutional changes incorporating improved recruitment and retention policies and practices for underrepresented groups and women based on IGERT have occurred.
- Other (Please specify):

Please describe a demonstrable institutional change, if any, that has occurred during this reporting period due to IGERT.

(Response is limited to 1,000 characters.)

[The PI has an option to make the demonstrable institutional change available for use on the IGERT Resource Center Web site, viewable by the general public.]

5. Publications/Presentations

5a. Journal Articles in Referred Publications

Did your IGERT project have any journal articles published in referred publications during the current reporting period?

Yes/No

If yes, please provide citations.

STEP 1: Prepare a list of citations for these articles.

STEP 2: Upload the citations list in .txt format.

5b. Journal Articles in Non-Referred Publications

Did your IGERT project have any journal articles published in non-referred publications during the current reporting period?

Yes/No

If yes, please provide citations.

STEP 1: Prepare a list of citations for these articles.

STEP 2: Upload the citations list in .txt format.

5c. Books

Did your IGERT project have any books published during the current reporting period? Yes/No

If yes, please provide citations.

STEP 1: Prepare a list of citations for these books.

STEP 2: Upload the citations list in .txt format.

5d. Book Chapters

Did your IGERT project have any book chapters published during the current reporting period? Yes/No

If yes, please provide citations.

STEP 1: Prepare a list of citations for these book chapters.

STEP 2: Upload the citations list in .txt format.

5e. Patent Applications

Did your IGERT project submit any patent applications during the current reporting period? Yes/No

If yes, please provide citations.

STEP 1: Prepare a list of citations for these patent applications.

STEP 2: Upload the citations list in .txt format

5f. Patents Awarded

Was your IGERT project awarded any patents during the current reporting period? Yes/No

If yes, please provide citations.

STEP 1: Prepare a list of citations for these awarded patents.

STEP 2: Upload the citations list in .txt format

5g. Conference Publications

Did your IGERT project have any conference publications during the current reporting period? Yes/No

If yes, please provide citations.

STEP 1: Prepare a list of citations for these conference publications.

STEP 2: Upload the citations list in .txt format

5h. Conference Presentations

Did your IGERT project have any conference publications during the current reporting period? Yes/No

If yes, please provide citations.

STEP 1: Prepare a list of citations for these conference presentations.

STEP 2: Upload the citations list in .txt format

IGERT: Questions – Trainee Survey

1. About You

1a. Name and Contact Info

Name: (First, Middle Initial, Last, Previous Surname)

Your Current Address:

Institution Name

Department

Current Address

Current City

Current State

ZIP Code

Phone

Extension

Fax

E-mail Address

Web URL

Your Permanent Contact Information (Voluntary)

Your Social Security Number

Personal E-mail Address

Who will know how to reach you in the future?

Please provide the name and address of a person likely to know how to reach you in 3 years.

Contact Person's Name

Relationship to You

Contact Person's Address

Contact Person's City

Contact Person's State

Contact Person's ZIP Code

Contact Person's Country

Contact Peron's Phone Number

Extension

Contact Person's E-mail Address

1b. Demographics

Ethnicity (Choose one):

- Hispanic or Latino
- Not Hispanic or Latino
- Not Reported

Race (Mark all that apply):

- American Indian or Alaska Native
- Asian
- Black or African American
- Native Hawaiian or Other Pacific Islander
- White
- Not Reported

Gender (Choose one):

- Male
- Female
- Not Reported

Disability Status (Choose one):

- Yes (Check Yes if any of the following apply):
 - Deaf or serious difficulty hearing
 - Blind or serious difficulty seeing even when wearing glasses
 - Serious difficulty walking or climbing stairs
 - Other serious disability related to a physical, mental, or emotional condition
- No
- Do not wish to provide

Citizenship (Choose one):

- U.S. Citizen/U.S. National
- U.S. Permanent Resident

Date Permanent Resident Alien Status Was Granted (MM/YY)

- Other Non-U.S. Citizen
- Not Reported

State or Country of Birth (Choose one):

State/U.S. Territory of Birth [dropdown list]

Oi

Country of Birth (if not U.S. or U.S. Territory) [dropdown list]

1c. Your Major and Interests

Your Current Major

Major [dropdown list]

Degree sought (current):

- Master of Arts (MA)
- Master of Science (MS)
- Doctorate (Ph.D.)
- Professional Degree (MD, JD etc)
- Other Postbacc. Degree

Your Research Interests

Provide a brief description of your research interest/topic

(Responses are limited to 300 characters.)

Does your research involve any of the following? (Mark all that apply)

- Bioinformatics
- Biological evolution and development
- Biotechnology
- Civil infrastructure monitoring and improvement
- Climate change: impacts and factors
- Computational science and engineering
- Device development
- Energy: alternate and renewable resources and conservation
- Entrepreneurialism
- Human, social, and community sciences
- Imaging
- Materials science and engineering
- Nanoscience: engineering and technology
- Neuroscience: biology and psychology
- Sensing, signals, and signal processing
- Sustainability: ecology and the environment
- Water resources: conservation, utilization, and quality
- Other (Please specify):

1d. IGERT Advisors

Who are your IGERT advisors?

(Mark all that apply)

[Checkbox for each IGERT advisor as entered via PI survey.]

(For each advisor)

• Always
• Often
• Sometimes
 Never
1e. Graduation Plans
Expected or Actual Graduation Date (mm/yyyy)
If you have graduated, or you expect to graduate within 1 year, what type of employment
opportunities are you pursuing? (Mark all that apply) [Indicate top choice if more than one
opportunity is selected.]
Government
 Postdoctoral
• Full-time position
Part-time position
Industry/Business • Postdoctoral
Full-time position
Part-time position
Educational Institution (college, university, or K-12)
 Postdoctoral
Tenure-track faculty
Nontenure-track facultyStaff
Nonprofit
Postdoctoral
Full-time position
Part-time position
Self-Employed/Entrepreneur
2. Prior Experiences (Funded Trainees only)
2. Prior Experiences (Funded Trainees only) High School Background
High School Background
High School Background Name of high school/secondary school/institution from which you graduated/received a
High School Background
High School Background Name of high school/secondary school/institution from which you graduated/received a diploma
High School Background Name of high school/secondary school/institution from which you graduated/received a diploma School type (Select one):
High School Background Name of high school/secondary school/institution from which you graduated/received a diploma School type (Select one): Public
High School Background Name of high school/secondary school/institution from which you graduated/received a diploma School type (Select one): Public Private
High School Background Name of high school/secondary school/institution from which you graduated/received a diploma School type (Select one): Public
High School Background Name of high school/secondary school/institution from which you graduated/received a diploma School type (Select one): Public Private Other (Please specify):
High School Background Name of high school/secondary school/institution from which you graduated/received a diploma School type (Select one): Public Private Other (Please specify):
High School Background Name of high school/secondary school/institution from which you graduated/received a diploma School type (Select one): Public Private Other (Please specify): City U.S. State/U.S. Territory
High School Background Name of high school/secondary school/institution from which you graduated/received a diploma School type (Select one): Public Private Other (Please specify): City U.S. State/U.S. Territory ZIP Code
High School Background Name of high school/secondary school/institution from which you graduated/received a diploma School type (Select one): Public Private Other (Please specify): City U.S. State/U.S. Territory ZIP Code Non-U.S. high school country [dropdown list]
High School Background Name of high school/secondary school/institution from which you graduated/received a diploma School type (Select one): Public Private Other (Please specify): City U.S. State/U.S. Territory ZIP Code
High School Background Name of high school/secondary school/institution from which you graduated/received a diploma School type (Select one): Public Private Other (Please specify): City U.S. State/U.S. Territory ZIP Code Non-U.S. high school country [dropdown list] Undergraduate Background Prior to IGERT Traineeship
High School Background Name of high school/secondary school/institution from which you graduated/received a diploma School type (Select one): Public Private Other (Please specify): City U.S. State/U.S. Territory ZIP Code Non-U.S. high school country [dropdown list] Undergraduate Background Prior to IGERT Traineeship Institution name
High School Background Name of high school/secondary school/institution from which you graduated/received a diploma School type (Select one): Public Private Other (Please specify): City U.S. State/U.S. Territory ZIP Code Non-U.S. high school country [dropdown list] Undergraduate Background Prior to IGERT Traineeship Institution name If other institution, please specify: Institution name
High School Background Name of high school/secondary school/institution from which you graduated/received a diploma School type (Select one): Public Private Other (Please specify): City U.S. State/U.S. Territory ZIP Code Non-U.S. high school country [dropdown list] Undergraduate Background Prior to IGERT Traineeship Institution name If other institution, please specify: City
High School Background Name of high school/secondary school/institution from which you graduated/received a diploma School type (Select one): Public Private Other (Please specify): City U.S. State/U.S. Territory ZIP Code Non-U.S. high school country [dropdown list] Undergraduate Background Prior to IGERT Traineeship Institution name If other institution, please specify: City State
High School Background Name of high school/secondary school/institution from which you graduated/received a diploma School type (Select one): Public Private Other (Please specify): City U.S. State/U.S. Territory ZIP Code Non-U.S. high school country [dropdown list] Undergraduate Background Prior to IGERT Traineeship Institution name If other institution, please specify: City State Non-U.S. undergraduate country [dropdown list]
High School Background Name of high school/secondary school/institution from which you graduated/received a diploma School type (Select one): Public Private Other (Please specify): City U.S. State/U.S. Territory ZIP Code Non-U.S. high school country [dropdown list] Undergraduate Background Prior to IGERT Traineeship Institution name If other institution, please specify: City State

How often was this person involved in your IGERT activities?

Undergraduate Degree Type (Choose one)

- Bachelor of Arts (BA)
- Bachelor of Science (BS)
- Other (please specify): _____

Major [dropdown list]

- Bachelor of Arts (BA)
- Bachelor of Science (BS)
- Other (please specify): _____

For double majors, select second major [dropdown list]

Post-Undergraduate Degree Prior to IGERT Traineeship

Did you obtain a post-undergraduate degree prior to becoming an IGERT trainee? Yes/No

If Yes, provide the following information.

Institution name

City

State

Non-U.S. post-undergraduate country [dropdown list]

Major [dropdown list]

Department [dropdown list]

Post-undergraduate degree type

- Master of Arts (M.A.)
- Master of Science (M.S.)
- Doctorate (Ph.D.)
- Professional Degree (MD, JD, etc.)
- Other Postbacc. Degree

When did you receive your post-undergraduate degree (mm/yyyy)

Employment Prior to IGERT Traineeship

Were you employed in the public or private sector for 1 or more years after receiving your first undergraduate degree and prior to becoming an IGERT trainee? (Do not include employment as a research assistant or teaching assistant while pursuing a master's degree.)

Yes/No

Total number of years (equal to or greater than 1 year, to the nearest year) you were employed in the public or private sector after receiving your first undergraduate degree and prior to becoming an IGERT trainee.

- 1 year
- 2 years
- 3 years
- 4 years
- 5 years
- More than 5 years

3. Achievements

3a. Publications, patents, and presentations provided by the PI

[The list of publications, patents, and presentations that were entered via the PI survey that included this trainee as an author are presented for the trainee to review.]

3b. Fellowships, scholarships, and grants other than IGERT

Provide for each fellowship, scholarship, and grant other than IGERT received during the current reporting period.
Title of fellowship, scholarship, or grant [dropdown list] If other fellowship, please specify: Proposal Title Year Awarded Awarding Agency/Organization
3c. Other Honors and Recognition
Provide for each honor and recognition received during the current reporting period.
Title of honor or recognition [dropdown list] If other title, please specify:
Year
Society/Granting Organization
3d. Please describe what you consider to be your major research or education accomplishment
made possible as a result of your participation in your IGERT project during this reporting year
(Responses are limited to 1,000 characters.)
(responses are immeed to 1,000 enaracters)
4. Research Preparation (Funded Trainees only)
Please indicate which of the following activities you engaged in during this reporting period.
(Mark all that apply)
 Undertook formal coursework/training in research methods, practices and instrumentation in your primary discipline equivalent to traditional graduate students
 Had practical, hands-on laboratory and/or field experience in conducting research across the breadth of disciplines in the IGERT program
 Undertook formal coursework/training across the breadth of disciplines encompassed by the IGERT project Undertook formal coursework/training in both ethical conduct of research and ethical conduct related to the themes encompassed by your IGERT project
 Other preparation to conduct high-quality research (Please specify): Please check here if you were not engaged in any of the activities listed above during this reporting period.
How many courses/seminars did you take in disciplines outside of your primary discipline
during this reporting period?
How many courses/seminars did you take in your primary discipline this reporting period?
How many courses/seminars did you take that specifically covered interdisciplinary topics
related to your IGERT during this reporting period?
5. Professional Skills (Funded Trainees only)
Please indicate which of the following activities you engaged in during this reporting period.
(Mark all that apply)
 Undertook coursework/training that included regular faculty critique of and feedback on professional writing Authored submitted or published receased papers in refereed journals =

- Authored, submitted, or published research papers in refereed journals =
- Undertook coursework/training (e.g., brown bags, seminars) that included regular critique of and feedback on professional speaking/presentation skills
- Made presentations at academic/scientific professional conferences or meetings
- Presented results from IGERT activities to professional, nonacademic audiences (e.g., industry, government)
- Undertook coursework/training to develop media-based or information technology-based communication skills
- Produced multimedia materials, Web sites, or other cyber-enabled tools to communicate the results of IGERT

activities to external audiences

- Used multimedia materials, Web sites, or other cyber-enabled tools as part of the interdisciplinary scientific training and collaboration
- Received training in team-building and project management skills
- Received training in effective time and task management
- · Participated as a members of teams engaged in joint research, education, and/or outreach efforts
- Led teams engaged in research, education, and/or outreach efforts
- Please check here if you were not engaged in any of the activities listed above during this reporting period

6. Career Preparation (Funded Trainees only)

Please describe what you consider to be the most beneficial IGERT training experience or component that has prepared you to be successful in a science or engineering career in an international/global setting. Note: This can include U.S.-based experiences.

(Responses are limited to 1,000 characters.)

Please indicate which of the following activities you engaged in during this reporting period. (Mark all that apply)

- Received training or instruction (e.g., courses, workshops) in effective teaching practices and student mentoring
- Developed and presented course and/or curriculum materials
- Served as a mentor to others (e.g., graduate students, undergraduates, laboratory technicians)
- Received training/mentoring in grant proposal preparation
- Authored/co-authored and submitted grant proposals
- Received training/instruction on the interaction between academic research and industrial technical requirements
- Received training/instruction for applying your research to address public policy concerns or issues
- Had an internship (an off-campus, research, educational and/or work experience) in a nonacademic setting (e.g., industry, government)
- Had professional interactions other than internships with nonacademic employers (e.g., industry, government) in order to learn about career opportunities and requirements
- Communicated, worked, or collaborated with scientists of other nationalities
- Other preparation for nonacademic careers (e.g., industry, government) (Please specify):
- Please check here if you were not engaged in any of the activities listed above during this reporting period

7. Internships

Have you taken part in any internships lasting 1 month or more with industries or businesses, government laboratories or agencies, or nonprofit organizations during this current reporting period?

Yes/No

If Yes, the respondent can specify up to four internships. The following data are collected for each internship.

Company/Agency Name

Duration [dropdown list (1-52 weeks)]

Setting (Choose one):

- Industry/business
- Nonprofit organization
- Government laboratory
- Public sector agency
- Other

Location (Choose one):

• U.S. Location

City

State/U.S. Territory

• Foreign Location

If non-U.S. internship, please specify country [dropdown list]

Please indicate the internship contributions that have prepared you for your career during this reporting period (Mark all that apply)

- Received training/instruction on the interaction between academic research and industrial technical requirements
- Received training/instruction for applying your research to address public policy concerns or issues
- Engaged in professional interactions other than internships with nonacademic employers (e.g., industry, government) in order to learn about career opportunities and requirements
- Communicated, worked, or collaborated with scientists of other nationalities
- Other preparation for nonacademic careers (e.g., industry, government) (Please specify):

Please identify the name of the company, agency, or organization at which the internship was served and describe what you consider to be the most beneficial professional or career-related aspect.

(Responses are limited to 1,000 characters.)

8. International Experiences

Did you have an international experiences this year? Yes/No

If Yes, the respondent can specify up to five international experiences. The following data are collected for each international experience:

Was this international experience related to your IGERT research? Yes/No

International experience duration [dropdown list (1-52 weeks)]

Please identify the primary country in which the international activities occurred. [dropdown list]

What activities were you engaged in during your international experience? (Mark all that apply)

- Attended conferences/workshops outside the United States
- Undertook coursework/training outside the United States
- Worked, conducted research/fieldwork, or interned outside the United States
- Other (Please specify):

Were you formally prepared for your international experience?

Yes/No

If yes, what experiences were included in the preparation for your international experience? (Mark all that apply)

- How to work in a foreign laboratory/field work
- Graduate education/education/laboratory differences in country to be visited
- Language
- Cultural differences
- Learning about the area
- Other (Please specify):

What did you accomplish during your international experience? (Mark all that apply)

- Awards/honors/recognitions
- Broader impacts
- Invention/patent
- Presentations
- Publications
- Other (Please specify):

If you took part in international activities during this reporting period, please describe what you

consider to be the most beneficial professional or career-related aspect of these activities.

(Responses are limited to 1,000 characters.)

9. Comments (Funded Trainees only)

Benefit of IGERT

In the text box below, please describe what you consider to be the most beneficial aspect of being an IGERT trainee during this reporting period. This might include: 1) an opportunity you had as a result of being an IGERT trainee that has significantly affected your professional development, 2) an aspect of the project that provided exceptional added value to your educational experience, or 3) an aspect of the project that has been especially successful and/or represents a real change from the way that graduate students are usually educated at your institution.

(Responses are limited to 1,000 characters.)

Opportunity for Improvement

Please describe what you consider to be the most important opportunity for improvement in the IGERT program with which you are associated.

(Responses are limited to 1,000 characters.)

10. Training Confirmation (Funded Trainees only)

Training Confirmation

How many hours spent per week did you spend on programmatic activities?

Did you participate in regular training throughout the year? Yes/No

Describe training you received

(Responses are limited to 1,000 characters.)

How frequently did you receive training? (Choose one)

- Weekly
- Bimonthly
- Monthly
- Other (Please specify):

Funding Confirmation

What was your stipend amount? (Choose one)

- \$30,000 gross annually (\$2,500 gross per month)
- Other gross amount per year (Please specify:

How does your traineeship stipend compare to stipends received by regular teaching or research assistants at your organization? (Choose one)

- Greater than others
- Equal to others
- Less than others

NSF provides your affiliated organization with a \$10,500 cost of education allowance with a 1-year traineeship in lieu of all required tuition and fees. How much would it cost if you had to pay the normal charges yourself?

[This question is only asked of funded trainees.]

Did you have to pay any tuition or fees this year?

Yes/No

If Yes, how much did you have to pay?