

**Attachment C1**

**Graduate STEM Fellows in K-12 Education (GK-12)  
Monitoring System**

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## GK-12: Crosswalk – Awards Survey

Common Collection Categories	Staff and Project Participant Characteristics <sup>1</sup>	Project Implementation	Project Outputs <sup>3</sup>
<b>Questions</b>			
<b>1. Award Information</b>			
Award Status		X	
NSF Award ID		X	
Grantee Institution		X	
Award Title		X	
Award Start Date (Month, Day, Year)		X	
Award End Date (Month, Day, Year)		X	
Award Dollar Amount		X	
Annual Carryover Funds: Dollar amount of current year of GK-12 support that will be carried over Total dollar amount that will be carried over Dollar amount of participant support costs that will be carried over Dollar amount of stipends that will be carried over		X	
List the top three subdisciplines associated with your GK-12 project: Subdiscipline 1: _____ Subdiscipline 2: _____ Subdiscipline 3: _____		X	
Award URL		X	
<b>2. Partnerships and Collaborations</b>			
<b>U.S. Academic Institution</b>			
Institution Name	X		
City	X		
State	X		
Zip Code	X		
<b>Non-U.S. Academic Institution</b>			
Institution Name	X		
Country	X		
<b>Non Academic Institution</b>			
Institution Name	X		
Institution Type (mark all that apply) • Museum	X		

<sup>1</sup> 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.

<sup>2</sup> Elements of these characteristics include: Sources and amount of funds, fellowships, scholarships, traineeships, partnerships, training, and research methods.

<sup>3</sup> Elements of these characteristics include: research findings, publications, presentations, degrees granted, and educational materials.

<p style="text-align: center;"><b>Common Collection Categories</b></p> <p><b>Questions</b></p>	<p style="text-align: center;"><b>Staff and Project Participant Count</b></p>	<p style="text-align: center;"><b>Characteristics</b></p>	<p style="text-align: center;"><b>Project Outputs</b></p>
<ul style="list-style-type: none"> <li>• Science Center</li> <li>• Industrial Partner</li> <li>• Business Partner</li> <li>• Government Agency</li> <li>• National Laboratory</li> <li>• Nonprofit Organization</li> <li>• Other</li> </ul>			
<p><b>3. Participating Schools In Your GK-12 Project</b></p>			
<p><b>K-12 School</b></p>			
<p>School Name</p>	X		
<p>School Level (select one)</p> <ul style="list-style-type: none"> <li>• Elementary (K–5/6)</li> <li>• Middle (6–8)</li> <li>• High school grades (9–12)</li> <li>• Pre-K/kindergarten through middle school (K–8)</li> <li>• Middle through high (7–12)</li> </ul>	X		
<p>State</p>	X		
<p>District Name</p>	X		
<p>School Setting/Location (select one)</p> <ul style="list-style-type: none"> <li>• Rural</li> <li>• Urban</li> <li>• Suburban</li> </ul>	X		
<p>School Type (mark all that apply)</p> <ul style="list-style-type: none"> <li>• Charter</li> <li>• Private</li> <li>• Public</li> </ul>	X		
<p>Percentage of students who are eligible for free or reduced price lunch (select one)</p> <ul style="list-style-type: none"> <li>• Not applicable</li> <li>• 1–10%</li> <li>• 11–20%</li> <li>• 21–30%</li> <li>• 31–40%</li> <li>• 41–50%</li> <li>• 51–60%</li> <li>• 61–70%</li> <li>• 71–80%</li> <li>• 81–90%</li> <li>• 91–100%</li> </ul>	X		
<p><b>4. Lead Principal Investigators and Co-Principal Investigator Information</b></p>			
<p><b>PI/Co-PI</b></p>			

Common Collection Categories	Staff and Project Participant	Project Implementation	Project Outputs
<b>Questions</b>			
Name: Title First name Middle name Last name Suffix	X		
<input type="checkbox"/> Lead PI	X		
Institutional affiliation (Name and State)			
Phone: Number Extension	X		
Alternate Phone: Number Extension Type (mark one) • U.S. number • Non-U.S. number	X		
E-mail Address	X		
Should the system e-mail a user ID and password to this participant? • Yes • No		X	
Will this participant have authority to enter data? • Yes • No		X	
Should this participant receive announcements and reminders that are sent to the project's lead PI from this system and from the Technical Support staff?? • Yes • No		X	
Title (e.g. Professor)		X	
Affiliation/Academic Department	X		
In what roles, functions, and activities does this PI/co-PI serve the project?		X	
Academic Disciplines (mark all that apply) • Chemistry – Analytical • ...see footnote 4 for complete list <sup>4</sup> ...	X		

<sup>4</sup> Academic disciplines used throughout the GK-12 surveys:

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

<p style="text-align: center;"><b>Common Collection Categories</b></p> <p><b>Questions</b></p>	<p><b>Staff and Project Participant Activities</b></p>	<p><b>Project Implementation</b></p>	<p><b>Project Outputs</b></p>
<ul style="list-style-type: none"> <li>• STEM Education and Learning Research – Other (please specify): _____</li> <li>• Other (please specify): _____</li> </ul>			

- 
- Chemistry – Polymer
  - Chemistry – Theoretical
  - Chemistry – Other (please specify):
  - Comp/IS/Eng – Artificial Intelligence (including Robotics, Computer Vision, and Human Language Processing)
  - Comp/IS/Eng – Computer Architecture and Grids
  - Comp/IS/Eng – Computer Science – Languages and Systems
  - Comp/IS/Eng – Computer Science – Theoretical Foundations
  - Comp/IS/Eng – Database Information Retrieval and Web Search
  - Comp/IS/Eng – Graphics and Visualization
  - Comp/IS/Eng – Human Computer Interaction
  - Comp/IS/Eng – Information Security and Assurance
  - Comp/IS/Eng – Information Technology and Organizations
  - Comp/IS/Eng – Networks and Communications
  - Comp/IS/Eng – Operating Systems and Middleware
  - Comp/IS/Eng – Scientific Computing and Informatics
  - Comp/IS/Eng – Software Engineering
  - Comp/IS/Eng – 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

<p style="text-align: center;"><b>Common Collection Categories</b></p> <p><b>Questions</b></p>	<p style="text-align: center;"><b>Staff and Project Participant Involvement</b></p>	<p style="text-align: center;"><b>Project Implementation</b></p>	<p style="text-align: center;"><b>Project Outputs</b></p>
<p>Does this co-PI belong to any of the following categories for education faculty?</p>	<p>X</p>		

- 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):
- Mathematical Sciences – Algebra or Number Theory

<p style="text-align: center;"><b>Common Collection Categories</b></p> <p><b>Questions</b></p>	<p style="text-align: center;"><b>Staff and Project Participant Activities</b></p>	<p style="text-align: center;"><b>Project Implementation</b></p>	<p style="text-align: center;"><b>Project Outputs</b></p>
<ul style="list-style-type: none"> <li>• Yes (mark all capacities that apply)               <ul style="list-style-type: none"> <li>• Education faculty in STEM department/college. For instance, she/he could</li> </ul> </li> </ul>			

- 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
- Social Sciences – Law and Social Science
- Social Sciences – Linguistics Anthropology



<p style="text-align: center;"><b>Common Collection Categories</b></p> <p><b>Questions</b></p>	<p style="text-align: center;"><b>Staff and Project Participant Involvement</b></p>	<p style="text-align: center;"><b>Project Implementation</b></p>	<p style="text-align: center;"><b>Project Outputs</b></p>
<p>be an education person who belongs to a Biology department; this person is responsible for biological education related matters that could be biological education research and/or teaching in the department.</p> <ul style="list-style-type: none"> <li>• Education faculty in the school or college of education</li> <li>• Education and outreach director in a STEM department, college, university and/or research centers</li> <li>• Other educational faculty (please specify): _____</li> </ul> <ul style="list-style-type: none"> <li>• No</li> </ul>			
<p><b>Ethnicity (select one)</b></p> <ul style="list-style-type: none"> <li>• Not Hispanic or Latino</li> <li>• Hispanic or Latino</li> <li>• Not reported</li> </ul>	X		
<p><b>Race (Mark one or more)</b></p> <ul style="list-style-type: none"> <li>• American Indian or Alaska Native</li> <li>• Asian</li> <li>• Black or African American</li> <li>• Native Hawaiian or Pacific Islander</li> <li>• White</li> <li>• Not reported</li> </ul>	X		
<p><b>Gender (select one)</b></p> <ul style="list-style-type: none"> <li>• Female</li> <li>• Male</li> <li>• Not reported</li> </ul>	X		
<p><b>Disability: (Select one)</b></p> <ul style="list-style-type: none"> <li>• Yes (Mark “yes” if any of the following apply: <ul style="list-style-type: none"> <li>• Deaf or serious difficulty hearing</li> <li>• Blind or serious difficulty seeing even when wearing glasses</li> <li>• Serious difficulty walking or climbing stairs</li> <li>• Other serious disability related to a physical, mental, or emotional condition)</li> </ul> </li> <li>• No</li> </ul>	X		

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- 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):

<p style="text-align: center;"><b>Common Collection Categories</b></p> <p><b>Questions</b></p>	<p style="text-align: center;"><b>Staff and Project Participant Information</b></p>	<p style="text-align: center;"><b>Project Implementation</b></p>	<p style="text-align: center;"><b>Project Outputs</b></p>
<ul style="list-style-type: none"> <li>Do not wish to provide</li> </ul>			
<p><b>5. Project Coordinator Information</b></p>			
<input type="checkbox"/> Mark the box if your project does not have a coordinator and skip the other questions in this section		X	
<p><b>Project Coordinator</b></p>			
Name: Title First name Middle name Last name Suffix	X		
Should the system e-mail a user ID and password to this Project Coordinator? <ul style="list-style-type: none"> <li>Yes</li> <li>No</li> </ul>		X	
Will this participant have the authority to enter data? <ul style="list-style-type: none"> <li>Yes</li> <li>No</li> </ul>		X	
Should this participant receive copies of announcements and reminders that are sent to your project's lead PI from this system and its Technical Support staff? <ul style="list-style-type: none"> <li>Yes</li> <li>No</li> </ul>		X	
Phone: Number Extension	X		
Alternate Phone: Number Extension Type (mark one) <ul style="list-style-type: none"> <li>U.S. number</li> <li>Non-U.S. number</li> </ul>	X		
E-Mail Address	X		
<p><b>6. Graduate Fellow Information</b></p>			
<p><b>Graduate Fellow</b></p>			
Name: Title First name Middle name Last name Suffix	X		

<p style="text-align: center;"><b>Common Collection Categories</b></p> <p><b>Questions</b></p>	<p style="text-align: center;"><b>Staff and Project Participant Status</b></p>	<p style="text-align: center;"><b>Project Implementation</b></p>	<p style="text-align: center;"><b>Project Outputs</b></p>
Citizenship (select one) <ul style="list-style-type: none"> <li>• U.S. citizen</li> <li>• Permanent resident</li> <li>• U.S. national</li> <li>• Non-U.S. citizen</li> </ul>	X		
Phone: Number Extension	X		
Alternate Phone: Number Extension Type (mark one) <ul style="list-style-type: none"> <li>• U.S. number</li> <li>• Non-U.S. number</li> </ul>	X		
E-mail Address	X		
Fellowship Start Date Month Year		X	
Fellowship End Date Month Year		X	
Total stipend received by graduate fellow <ul style="list-style-type: none"> <li>• Funded by NSF at the full rate of \$30,000/yr</li> <li>• Funded by other source(s), please specify:                If funded by other source(s):                    Source(s) of non-NSF funding                    \$ Amount</li> </ul>		X	
<p><b>7. Cooperating Teacher Information</b></p>			
<p><b>Cooperating Teacher</b></p>			
Name: Title First name Middle name Last name Suffix	X		
Phone: Number Extension	X		
Alternate Phone: Number Extension	X		

<p style="text-align: center;"><b>Common Collection Categories</b></p> <p><b>Questions</b></p>	<p style="text-align: center;"><b>Staff and Project Participant</b></p>	<p style="text-align: center;"><b>Project Implementation</b></p>	<p style="text-align: center;"><b>Project Outputs</b></p>
Type (mark one) <ul style="list-style-type: none"> <li>• U.S. number</li> <li>• Non-U.S. Number</li> </ul>			
School E-mail Address	X		
Other E-mail Address	X		
<input type="checkbox"/> Lead teacher and/or NSF supported Teacher		X	
What NSF GK-12 funds did this teacher receive during the current reporting period? Stipend \$ _____ Travel Budget \$ _____ Materials Budget \$ _____ Other \$ _____ Please Explain: _____		X	
<p><b>8. Award Evaluator Information</b></p>			
<p><b>Award Evaluator</b></p>			
Name: Title First name Middle name Last name Suffix	X		
Phone: Number Extension	X		
Alternate Phone: Number Extension Type (mark one) <ul style="list-style-type: none"> <li>• U.S. number</li> <li>• Non-U.S. number</li> </ul>	X		
E-mail Address	X		
Organization/Unit	X		
<p><b>9. Other Participant Information</b></p>			
<p><b>Other Participant</b></p>			
Name: Title First name Middle name Last name Suffix	X		
Should the system e-mail a user ID and password for this participant?		X	

<p style="text-align: center;"><b>Common Collection Categories</b></p> <p><b>Questions</b></p>	<p style="text-align: center;"><b>Staff and Project Participant Status</b></p>	<p style="text-align: center;"><b>Project Implementation</b></p>	<p style="text-align: center;"><b>Project Outputs</b></p>
<ul style="list-style-type: none"> <li>• Yes</li> <li>• No</li> </ul>			
<p>Will this participant have the authority to enter data?</p> <ul style="list-style-type: none"> <li>• Yes</li> <li>• No</li> </ul>		X	
<p>Participant Role (select one)</p> <ul style="list-style-type: none"> <li>• Programmer</li> <li>• Technician</li> <li>• Other (Please specify) : _____</li> </ul>		X	
<p>Phone:</p> <p>Number</p> <p>Extension</p>	X		
<p>Alternate Phone:</p> <p>Number</p> <p>Extension</p> <p>Type (mark one)</p> <ul style="list-style-type: none"> <li>• U.S. number</li> <li>• Non-U.S. number</li> </ul>	X		
<p>E-mail Address</p>	X		
<p><b>10. Academic Achievements Related to GK-12 Activities and Themes</b></p>			
<p><b>Achievement</b></p>			
<p>Academic Achievement Product (select one)</p> <ul style="list-style-type: none"> <li>• Educational product – Educational research – Journals – Refereed</li> <li>• Educational product – Educational research – Journals – Non-refereed</li> <li>• Educational product – Educational research – Book</li> <li>• Educational product – Educational research – Book Chapter</li> <li>• Educational product – Institutional presentation – Conference presentation/poster</li> <li>• Educational product – Institutional presentation – Conference proceeding</li> <li>• Educational product – Institutional presentation – Invited talk/seminar</li> <li>• Educational product – Instructional product – Instructional materials</li> <li>• Educational product – Instructional product – Teaching modules</li> <li>• Educational product – Instructional product – Curriculums and lesson plans</li> <li>• Scientific Product – Refereed journal</li> <li>• Scientific Product – Non-refereed journal</li> <li>• Scientific Product – Book</li> <li>• Scientific Product – Book chapter</li> <li>• Scientific Product – Conference proceeding</li> <li>• Scientific Product – Conference presentation/poster</li> <li>• Scientific Product – Invited talk</li> <li>• Scientific Product – Seminar</li> <li>• Patent application</li> <li>• Patent awarded</li> <li>• Other (please specify): _____</li> </ul>			X
<p>Citation (with NSF-funded GK-12 fellows noted by “*” and cooperating</p>			X

Common Collection Categories	Staff and Project Participant	Project Implementation	Project Outputs																																									
<b>Questions</b>																																												
teachers noted by “+”)																																												
<b>11. Additional Funding Sources</b>																																												
<b>Source</b>																																												
Source Name		X																																										
Additional funding source type (select one) <ul style="list-style-type: none"> <li>• Business</li> <li>• Foundation</li> <li>• State government</li> <li>• Federal Government</li> <li>• Local government</li> <li>• Home institution</li> <li>• Other (please specify): _____</li> </ul>		X																																										
Amount of additional funding \$ _____		X																																										
Additional funding type (mark all that apply) <ul style="list-style-type: none"> <li>• Monetary contribution</li> <li>• Materials and supplies</li> <li>• Equipment</li> <li>• Other (please specify): _____</li> </ul>		X																																										
<b>12. Program Outreach Information</b>																																												
<b>Outreach Activity</b>																																												
Activity Title			X																																									
Activity description			X																																									
<b>13. Development Activities</b>																																												
Fellows’ Developmental Activities:			X																																									
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th data-bbox="131 1289 574 1373" rowspan="2">Activity</th> <th colspan="5" data-bbox="574 1289 1174 1373">Frequency (mark one per activity)</th> </tr> <tr> <th data-bbox="574 1373 691 1499">Summer</th> <th data-bbox="691 1373 797 1499">Weekly</th> <th data-bbox="797 1373 932 1499">Bimonthly</th> <th data-bbox="932 1373 1053 1499">Monthly</th> <th data-bbox="1053 1373 1174 1499">Other (please specify)</th> </tr> </thead> <tbody> <tr> <td data-bbox="131 1499 574 1625">Fellows took coursework/training (e.g., new courses, seminars) that included regular critique of and feedback on communication skills.</td> <td data-bbox="574 1499 691 1625" style="text-align: center;"><input type="checkbox"/></td> <td data-bbox="691 1499 797 1625" style="text-align: center;"><input type="checkbox"/></td> <td data-bbox="797 1499 932 1625" style="text-align: center;"><input type="checkbox"/></td> <td data-bbox="932 1499 1053 1625" style="text-align: center;"><input type="checkbox"/></td> <td data-bbox="1053 1499 1174 1625"></td> </tr> <tr> <td data-bbox="131 1625 574 1688">Fellows received training in collaboration and team building.</td> <td data-bbox="574 1625 691 1688" style="text-align: center;"><input type="checkbox"/></td> <td data-bbox="691 1625 797 1688" style="text-align: center;"><input type="checkbox"/></td> <td data-bbox="797 1625 932 1688" style="text-align: center;"><input type="checkbox"/></td> <td data-bbox="932 1625 1053 1688" style="text-align: center;"><input type="checkbox"/></td> <td data-bbox="1053 1625 1174 1688"></td> </tr> <tr> <td data-bbox="131 1688 574 1751">Fellows received training to develop their leadership skills.</td> <td data-bbox="574 1688 691 1751" style="text-align: center;"><input type="checkbox"/></td> <td data-bbox="691 1688 797 1751" style="text-align: center;"><input type="checkbox"/></td> <td data-bbox="797 1688 932 1751" style="text-align: center;"><input type="checkbox"/></td> <td data-bbox="932 1688 1053 1751" style="text-align: center;"><input type="checkbox"/></td> <td data-bbox="1053 1688 1174 1751"></td> </tr> <tr> <td data-bbox="131 1751 574 1856">Fellows received training in pedagogy (definition: science of teaching, education, and instructional methods).</td> <td data-bbox="574 1751 691 1856" style="text-align: center;"><input type="checkbox"/></td> <td data-bbox="691 1751 797 1856" style="text-align: center;"><input type="checkbox"/></td> <td data-bbox="797 1751 932 1856" style="text-align: center;"><input type="checkbox"/></td> <td data-bbox="932 1751 1053 1856" style="text-align: center;"><input type="checkbox"/></td> <td data-bbox="1053 1751 1174 1856"></td> </tr> <tr> <td data-bbox="131 1856 574 1925">Fellows participated with teachers in content and pedagogy sessions</td> <td data-bbox="574 1856 691 1925" style="text-align: center;"><input type="checkbox"/></td> <td data-bbox="691 1856 797 1925" style="text-align: center;"><input type="checkbox"/></td> <td data-bbox="797 1856 932 1925" style="text-align: center;"><input type="checkbox"/></td> <td data-bbox="932 1856 1053 1925" style="text-align: center;"><input type="checkbox"/></td> <td data-bbox="1053 1856 1174 1925"></td> </tr> </tbody> </table>	Activity	Frequency (mark one per activity)					Summer	Weekly	Bimonthly	Monthly	Other (please specify)	Fellows took coursework/training (e.g., new courses, seminars) that included regular critique of and feedback on communication skills.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		Fellows received training in collaboration and team building.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		Fellows received training to develop their leadership skills.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		Fellows received training in pedagogy (definition: science of teaching, education, and instructional methods).	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		Fellows participated with teachers in content and pedagogy sessions	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				
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<b>Questions</b>																																						
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Fellows developed multimedia materials, Web sites, or other cyber-enabled tools to communicate their research activities to external audiences.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																		
Fellows had other preparation in professional skills development (please specify): _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																		
<b>Fellows' other development activities: (mark all that apply)</b> <ul style="list-style-type: none"> <li>• Fellows participated with teachers in content and pedagogy sessions related to developing GK-12 activities</li> <li>• Fellows developed multimedia materials or other cyber-enabled tools to communicate to external audiences</li> <li>• Fellows developed and presented course and/or curriculum materials</li> <li>• Fellows served as a mentor to others (e.g., graduate students, undergraduates, laboratory technicians)</li> <li>• Fellows authored/coauthored and submitted grant proposals</li> <li>• Fellows had professional interactions other than internships with non-academic employers (e.g., industry, government) in order to learn about carrier opportunities and requirements</li> <li>• Fellows communicated, worked, or collaborated with scientists of other nationalities</li> <li>• Fellows made presentations to non-academic public</li> <li>• Fellows received other preparation in professional skills development (please specify): _____</li> </ul>								X																														
<b>Cooperating Teachers' Development Activities: (mark all that apply)</b> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;"><i>Activity</i></th> <th style="text-align: center;"><i>Summer</i></th> <th style="text-align: center;"><i>Yearlong</i></th> </tr> </thead> <tbody> <tr> <td>Teachers and fellows participated in content and pedagogy training related to developing GK-12 activities.</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Teachers participated with fellows in training that stressed teamwork.</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Teachers received training in effective mentoring skills.</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Teachers participated in coursework/training sessions that helped increase their science content knowledge.</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Teachers participated as team members engaged in joint research and educational efforts.</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Teachers made presentations at academic/scientific professional conferences or meetings.</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Teachers participated in the development of multimedia materials, Web sites, or other cyber-enabled tools for teaching/learning.</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Teachers participated in training in authoring, submitting, or publishing professional papers.</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Teachers had other preparation in professional skills development (please specify): _____</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> </tbody> </table>						<i>Activity</i>	<i>Summer</i>	<i>Yearlong</i>	Teachers and fellows participated in content and pedagogy training related to developing GK-12 activities.	<input type="checkbox"/>	<input type="checkbox"/>	Teachers participated with fellows in training that stressed teamwork.	<input type="checkbox"/>	<input type="checkbox"/>	Teachers received training in effective mentoring skills.	<input type="checkbox"/>	<input type="checkbox"/>	Teachers participated in coursework/training sessions that helped increase their science content knowledge.	<input type="checkbox"/>	<input type="checkbox"/>	Teachers participated as team members engaged in joint research and educational efforts.	<input type="checkbox"/>	<input type="checkbox"/>	Teachers made presentations at academic/scientific professional conferences or meetings.	<input type="checkbox"/>	<input type="checkbox"/>	Teachers participated in the development of multimedia materials, Web sites, or other cyber-enabled tools for teaching/learning.	<input type="checkbox"/>	<input type="checkbox"/>	Teachers participated in training in authoring, submitting, or publishing professional papers.	<input type="checkbox"/>	<input type="checkbox"/>	Teachers had other preparation in professional skills development (please specify): _____	<input type="checkbox"/>	<input type="checkbox"/>			X
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<p style="text-align: center;"><b>Common Collection Categories</b></p> <p><b>Questions</b></p>	<p><b>Staff and Project Participant Activities</b></p>	<p><b>Project Implementation</b></p>	<p><b>Project Outputs</b></p>
<p><b>14. International Experience</b></p>			
<p><input type="checkbox"/> Mark the box if your project did not participate in an international experience and skip the other questions in this section.</p>		X	
<p>What country or countries did any your project participants visit as part of the GK-12 international experience (select all that apply)</p> <ul style="list-style-type: none"> <li>• Afghanistan</li> <li>• Albania ...</li> </ul>		X	
<p>How many of your fellows engaged in an international experience through the GK-12 project during this reporting period: _____</p>		X	
<p>How many of your teachers engaged in an international experience through the GK-12 project during this reporting period: _____</p>		X	
<p>Identify the following international activities involving GK-12 fellows (mark all that apply)</p> <ul style="list-style-type: none"> <li>• Fellow(s) worked in a university and conducted research overseas.</li> <li>• Fellow(s) worked as a team with teachers and students overseas.</li> <li>• Fellow(s) worked with their teachers overseas.</li> <li>• Fellow(s) attended conferences/workshops.</li> <li>• Other international activities (please specify): _____</li> </ul>		X	
<p>Identify the following international activities involving GK-12 teachers (mark all that apply)</p> <ul style="list-style-type: none"> <li>• Teacher(s) worked as a team with their fellow in similar to GK-12 activities with international teachers and students.</li> <li>• Teacher(s) attended conferences/workshops.</li> <li>• Teacher(s) took coursework/training.</li> <li>• Teacher(s) worked or conducted research/field work with their fellow.</li> <li>• Other international activities (please specify): _____</li> </ul>		X	
<p>Identify the opportunities for PIs and co-PIs that resulted from the international experiences associated with the GK-12 project. (mark all that apply)</p> <ul style="list-style-type: none"> <li>• Developed new collaborations</li> <li>• Developed new access to facilities/skills</li> <li>• Developed new opportunities for research/education/training</li> <li>• Other (please specify): _____</li> </ul>			X
<p>Do you plan to maintain the collaborations developed from the international experience</p> <ul style="list-style-type: none"> <li>• No</li> <li>• Yes, please specify: _____</li> </ul>			X
<p>Please specify why your project does or does not plan to maintain collaborations developed from the international experiences:</p>		X	
<p>Briefly identify up to three research or educational achievements resulting from the international component of your GK-12 project. Each achievement may involve a single fellow or a group of fellows. Achievement 1: _____</p>			X



<p style="text-align: center;"><b>Common Collection Categories</b></p> <p><b>Questions</b></p>	<p style="text-align: center;"><b>Staff and Project Participant Activities</b></p>	<p style="text-align: center;"><b>Project Implementation</b></p>	<p style="text-align: center;"><b>Project Outputs</b></p>																																			
Achievement 2: _____ Achievement 3: _____																																						
<p><b>15. Program Impact</b></p>																																						
Do you have an overall plan in place and active with a specific set of goals and timelines for recruitment and retention of GK-12 fellows, including specifics for broadening participation of groups underrepresented in science and engineering? <ul style="list-style-type: none"> <li>• Yes</li> <li>• No</li> </ul>		X																																				
Regardless of your response to the previous question, please describe up to three of the best practices you employed to recruit qualified fellows to your GK-12 project during this reporting period. <p>Best Practice 1: _____</p> <p>Best Practice 2: _____</p> <p>Best Practice 3: _____</p>		X																																				
Please describe the extent to which each of the following practices has been productive for recruiting fellows overall to your GK-12 project during this reporting period <table border="1" data-bbox="142 1123 1174 1650"> <thead> <tr> <th><i>Practice</i></th> <th><i>Productive</i></th> <th><i>Somewhat Productive</i></th> <th><i>Not Productive</i></th> <th><i>N/A</i></th> </tr> </thead> <tbody> <tr> <td>*Relationships with NSF programs that can provide an undergraduate pool of potential GK-12 fellows (e.g., REU's NSF Centers)</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>*Relationships with faculty and programs at other academic institutions</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>*Use of recruiting resources on the GK-12 campus (e.g., career service office, graduate studies office)</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>*Collaboration with other NSF-funded programs to improve recruitment</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>*Use of professional meetings, conferences, associations to communicate, research, and market to potential GK-12 fellows</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Other (please specify): _____</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> </tbody> </table>	<i>Practice</i>	<i>Productive</i>	<i>Somewhat Productive</i>	<i>Not Productive</i>	<i>N/A</i>	*Relationships with NSF programs that can provide an undergraduate pool of potential GK-12 fellows (e.g., REU's NSF Centers)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	*Relationships with faculty and programs at other academic institutions	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	*Use of recruiting resources on the GK-12 campus (e.g., career service office, graduate studies office)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	*Collaboration with other NSF-funded programs to improve recruitment	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	*Use of professional meetings, conferences, associations to communicate, research, and market to potential GK-12 fellows	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Other (please specify): _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			X
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Other (please specify): _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																		
Please describe the extent to which each of the following practices has been productive for recruiting underrepresented minority and women fellows overall to your GK-12 project during this reporting period.		X																																				

Common Collection Categories					Staff and Project Participant	Project Implementation	Project Outputs	
Questions								
Practice	Underrepresented Minorities				Women			
*Relationships with NSF programs that specifically focus on broadening participation of women or underrepresented minorities in STEM (e.g., LSAMP, AGEP, TCUP, ADVANCE)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
*Use of resources on the campus (e.g., academic development programs, offices for campus diversity, or minority and women's student groups)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
*Interaction with professional associations, organizations, or committees serving women or underrepresented minority communities (e.g., National Action Council for Minorities in Engineering, Society of Women Engineers, committees in professional societies focused on minority communities and women)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
*Bridge programs for entering graduate students	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
*Mentoring or advisement arrangements that take advantage of underrepresented minorities or women faculty or graduate students on campus	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
*Relationships with faculty and programs at minority-serving academic institutions (e.g., historically black colleges and universities, Hispanic-serving institutions, tribal colleges)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
*Collaboration with other GK-12 projects for recruitment	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other (please specify): _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>16. Verify Fellows Interactions with K-12 Students</b>								

Common Collection Categories										Participant Characteristics	Project Implementation	Project Outputs
<b>Questions</b>												
Approve/edit/add fellow-teacher pairs submitted by fellows and teachers												
<i>Teacher Names</i>		<i>Fellow Names</i>										
Last, First	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
Approve/edit/add in- classroom locations submitted by fellows												
<i>School</i>	<i>Class Name</i>	<i>Other Identifying Information</i>	<i>Subject(s)</i>	<i>GK-12 Teacher(s)</i>	<i>Fellow(s)</i>	<i>Grade(s)</i>	<i># Students</i>	<i>Delete Class</i>				
								<input type="checkbox"/>				
								<input type="checkbox"/>				
								<input type="checkbox"/>				
Approve/edit/add out-of-classroom activities submitted by fellows												
<i>Location</i>	<i>Activity Type</i>	<i>Fellow(s)</i>	<i># Teachers</i>	<i># Students</i>	<i>Delete Activity</i>							
					<input type="checkbox"/>							
					<input type="checkbox"/>							
					<input type="checkbox"/>							

## GK-12: Crosswalk – Fellows Survey

Common Collection Categories	Staff and Project Participant	Project Implementation	Project Outputs <sup>7</sup>
<b>Questions</b>			
<b>1. Contact Information</b> <i>Some data will be pre-filled with data entered by the PI</i>			
Name: Title First name Middle name Last name Suffix	X		
Social Security Number: (select one) I choose to report my full SSN: ___-___-____ I choose to report the last 4 digits of my SSN: ____ Other (if blank system assigns 999-99-9999): _____	X		
Current Address: Street address 1 Street address 2 City State Zip or postal code	X		
Phone: Number Extension	X		
Alternate Phone: Number Extension Type: (mark one) • U.S. number • Non-U.S. number	X		
E-mail Address	X		
<b>2. Permanent Contact Information</b>			

<sup>5</sup> 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.

<sup>6</sup> Elements of these characteristics include: Sources and amount of funds, fellowships, scholarships, traineeships, partnerships, training, and research methods.

<sup>7</sup> Elements of these characteristics include: research findings, publications, presentations, degrees granted, and educational materials.

<p style="text-align: center;"><b>Common Collection Categories</b></p> <p><b>Questions</b></p>	<p style="writing-mode: vertical-rl; transform: rotate(180deg);"><b>Staff and Project Participant Characteristics</b></p>	<p style="writing-mode: vertical-rl; transform: rotate(180deg);"><b>Implementation Characteristics</b></p>	<p style="writing-mode: vertical-rl; transform: rotate(180deg);"><b>Project Outputs</b></p>
Permanent Address: Street address 1 Street address 2 City State or country Zip or postal code	X		
Permanent Phone: Number Extension	X		
Alternate Phone: Number Extension Type: (mark one) <ul style="list-style-type: none"> <li>• U.S. number</li> <li>• Non-U.S. number</li> </ul>	X		
Permanent E-mail Address			
<p><b>3. Demographic Information</b></p>			
Ethnicity: (select one) <ul style="list-style-type: none"> <li>• Hispanic or Latino</li> <li>• Not Hispanic or Latino</li> <li>• Not reported</li> </ul>	X		
Race: (mark one or more) <ul style="list-style-type: none"> <li>• American Indian or Alaska Native</li> <li>• Asian</li> <li>• Black or African American</li> <li>• Native Hawaiian or Other Pacific Islander</li> <li>• White</li> <li>• Not reported</li> </ul>	X		
Gender: <ul style="list-style-type: none"> <li>• Female</li> <li>• Male</li> <li>• Not reported</li> </ul>	X		
Citizenship: (select one) <ul style="list-style-type: none"> <li>• U.S. citizen</li> <li>• Permanent resident</li> <li>• U.S. national</li> <li>• Non-U.S. citizen</li> </ul>	X		
Permanent Resident since: [reported only by permanent residents] Month Year	X		

<p style="text-align: center;"><b>Common Collection Categories</b></p> <p><b>Questions</b></p>	<p style="writing-mode: vertical-rl; transform: rotate(180deg);"><b>Staff and Project Participant Status</b></p>	<p style="writing-mode: vertical-rl; transform: rotate(180deg);"><b>Project Implementation</b></p>	<p style="writing-mode: vertical-rl; transform: rotate(180deg);"><b>Project Outputs</b></p>
Disability: (Select one) <ul style="list-style-type: none"> <li>• Yes (Mark “yes” if any of the following apply:               <ul style="list-style-type: none"> <li>• Deaf or serious difficulty hearing</li> <li>• Blind or serious difficulty seeing even when wearing glasses</li> <li>• Serious difficulty walking or climbing stairs</li> <li>• Other serious disability related to a physical, mental, or emotional condition)</li> </ul> </li> <li>• No</li> <li>• Do not wish to provide</li> </ul>	X		
Place of Birth (U.S. State or Country)	X		
<b>4. Academic History</b>			
Name of high school/secondary school/institution from which you graduated/received a diploma	X		
Location of High School (City, State or Country, and Zip or Postal code)	X		
School type (select one) <ul style="list-style-type: none"> <li>• Public</li> <li>• Private</li> <li>• Other (please specify): _____</li> </ul>			
<b>Undergraduate Degree</b>			
Institution: U.S. Institution (Name and State) OR International Institution: Name Country	X		
Degree: (select one) <ul style="list-style-type: none"> <li>• B.A.</li> <li>• B.S.</li> <li>• Other (please specify) _____</li> </ul>	X		
Discipline: (select one) <ul style="list-style-type: none"> <li>• Chemistry – Analytical</li> <li>• ...see footnote 4 for complete list...</li> <li>• STEM Education and Learning Research – Other (please specify): _____</li> <li>• Other (please specify): _____</li> </ul>	X		
Academic Department	X		
Date of Completion: Month Year	X		
<b>Graduate Degree</b>			
Institution: U.S. Institution (Name and State) OR International Institution: Name	X		

<p style="text-align: center;"><b>Common Collection Categories</b></p> <p><b>Questions</b></p>	<p style="writing-mode: vertical-rl; transform: rotate(180deg);"><b>Staff and Project Participant Status</b></p>	<p style="writing-mode: vertical-rl; transform: rotate(180deg);"><b>Project Implementation</b></p>	<p style="writing-mode: vertical-rl; transform: rotate(180deg);"><b>Project Outputs</b></p>
Country			
Degree: (select one) <ul style="list-style-type: none"> <li>• M.A.</li> <li>• M.S.</li> <li>• Ph.D.</li> <li>• Other Postbaccalaureate Degree(please specify) _____</li> </ul>	X		
Discipline: (select one) <ul style="list-style-type: none"> <li>• Chemistry – Analytical</li> <li>• ...see footnote 4 for complete list...</li> <li>• STEM Education and Learning Research – Other (please specify): _____</li> <li>• Other (please specify): _____</li> </ul>	X		
Academic Department	X		
Date of Completion: Month Year	X		
<b>5. Previous Employment and Teaching Experience</b>			
Do you have a K-12 teaching certification? <ul style="list-style-type: none"> <li>• Yes, please specify _____</li> <li>• No</li> </ul>	X		
Do you have any prior K-12 teaching experience? <ul style="list-style-type: none"> <li>• Yes, please specify _____</li> <li>• No</li> </ul>	X		
Have you taken/are you taking any education certification courses? <ul style="list-style-type: none"> <li>• Yes, please specify _____</li> <li>• No</li> </ul>	X		
Were you employed in the public or private sector for 1 or more years after receiving your first undergraduate degree and prior to becoming a GK-12 fellow? <ul style="list-style-type: none"> <li>• Yes</li> <li>• No</li> </ul>	X		
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 a GK-12 fellow	X		
<b>6. Current Graduate Work</b>			
Current Graduate Institution: _____	X		
Date when you started your program: Month Year	X		
Expected Graduation Date Month Year	X		
If you expect to graduate within one year, what type of employment are you			X

<p style="text-align: center;"><b>Common Collection Categories</b></p> <p><b>Questions</b></p>	<p style="text-align: center;"><b>Staff and Project Participant Status</b></p>	<p style="text-align: center;"><b>Project Implementation</b></p>	<p style="text-align: center;"><b>Project Outputs</b></p>
<p>pursuing? (check all that apply)</p> <ul style="list-style-type: none"> <li>• Government - Postdoc</li> <li>• Government - Full-time position</li> <li>• Government - Part-time position</li> <li>• Industry/Business - Postdoc</li> <li>• Industry/Business - Full-time position</li> <li>• Industry/Business - Part-time position</li> <li>• Educational Institution (college, University, or K-12) - Postdoc</li> <li>• Educational Institution (college, University, or K-12) - Tenure-track faculty</li> <li>• Educational Institution (college, University, or K-12) - Non-tenure-track faculty</li> <li>• Educational Institution (college, University, or K-12) - Staff</li> <li>• Nonprofit - Postdoc</li> <li>• Nonprofit - Full-time position</li> <li>• Nonprofit - Part-time position</li> <li>• Self-employed/Entrepreneur</li> </ul>			
<p>If you expect to graduate within one year, what type of employment would you prefer most? (check one)</p> <ul style="list-style-type: none"> <li>• Government - Postdoc</li> <li>• Government - Full-time position</li> <li>• Government - Part-time position</li> <li>• Industry/Business - Postdoc</li> <li>• Industry/Business - Full-time position</li> <li>• Industry/Business - Part-time position</li> <li>• Educational Institution (college, University, or K-12) - Postdoc</li> <li>• Educational Institution (college, University, or K-12) - Tenure-track faculty</li> <li>• Educational Institution (college, University, or K-12) - Non-tenure-track faculty</li> <li>• Educational Institution (college, University, or K-12) - Staff</li> <li>• Nonprofit - Postdoc</li> <li>• Nonprofit - Full-time position</li> <li>• Nonprofit - Part-time position</li> <li>• Self-employed/Entrepreneur</li> </ul>			X
<p>Academic level during fellowship year: (select one)</p> <ul style="list-style-type: none"> <li>• Master's 1st year</li> <li>• Master's 2nd year</li> <li>• Master's 3rd year</li> <li>• Doctorate 1st year</li> <li>• Doctorate 2nd year</li> <li>• Doctorate 3rd year</li> <li>• Doctorate 4th year</li> <li>• Doctorate 5th year</li> <li>• Other (please specify level and year) _____</li> </ul>	X		
<p>Discipline: (select one)</p> <ul style="list-style-type: none"> <li>• Chemistry – Analytical</li> <li>• ...see footnote 4 for complete list...</li> <li>• STEM Education and Learning Research – Other (please specify): _____</li> <li>• Other (please specify): _____</li> </ul>	X		
<p>Academic Department</p>	X		
<p>Amount of NSF funds in your GK-12 stipend for the current academic year:</p>		X	



<p style="text-align: center;"><b>Common Collection Categories</b></p> <p><b>Questions</b></p>	<p style="writing-mode: vertical-rl; transform: rotate(180deg);"><b>Staff and Project Participant Status</b></p>	<p style="writing-mode: vertical-rl; transform: rotate(180deg);"><b>Project Implementation</b></p>	<p style="writing-mode: vertical-rl; transform: rotate(180deg);"><b>Project Outputs</b></p>
<p>(select one)</p> <ul style="list-style-type: none"> <li>• \$30,000 stipend</li> <li>• \$10,500 cost of education</li> <li>• Less than \$10,500; specify the amount: \$_____</li> </ul>			
<p>Did you have to pay tuition and fees in excess of the \$10,500 allowance for the cost of education?</p> <ul style="list-style-type: none"> <li>• Yes</li> <li>• No</li> </ul> <p>If yes, how much did you have to pay?</p>	X		
<p>How does your fellowship stipend compare to stipends received by regular teaching or research fellowships at your institution?</p> <ul style="list-style-type: none"> <li>• Greater than others</li> <li>• Equal to others</li> <li>• Less than others</li> <li>• Do not know</li> </ul>		X	
<p>What is your research topic? (<i>research topic does not have to be related to GK-12</i>)</p>	X		
<p>Does your research involve the following: (check all that apply)</p> <ul style="list-style-type: none"> <li>• Bioinformatics</li> <li>• Biotechnology</li> <li>• Civil Infrastructure</li> <li>• Climate change</li> <li>• Computational Science and Engineering</li> <li>• Cyber infrastructure Enabled Discovery and Learning</li> <li>• Device Development</li> <li>• Energy and Alternative Energy</li> <li>• Entrepreneurialism</li> <li>• Evolution and Development</li> <li>• Materials Science and Engineering</li> <li>• Nanoscience and Nanotechnology</li> <li>• Neuroscience: Biology and Psychology</li> <li>• Sensing, Signals, Imaging and Signal Processing</li> <li>• Social and Behavioral Sciences</li> <li>• Sustainability, Ecology and the Environment</li> <li>• Water and water quality</li> <li>• Other leading-edge science (please specify): _____</li> </ul>	X		
<p><b>7. Research Advisor Information</b></p>			
<p>Advisor's Name:</p> <p>Title</p> <p>First name</p> <p>Middle name</p> <p>Last name</p> <p>Suffix</p>	X		-
<p>Advisor's Academic Discipline: (select one)</p>	X		

<p style="text-align: center;"><b>Common Collection Categories</b></p> <p><b>Questions</b></p>	<b>Staff and Project Participant Status</b>	<b>Project Implementation</b>	<b>Project Outputs</b>
<ul style="list-style-type: none"> <li>• Chemistry – Analytical</li> <li>• ...see footnote 4 for complete list...</li> <li>• STEM Education and Learning Research – Other (please specify): _____</li> <li>• Other (please specify): _____</li> </ul>			
Advisor’s Academic Department	X		
Advisor’s phone: Number Extension	X		
Advisor’s E-mail Address	X		
<b>8. Interactions with K-12 Students</b>			
Teachers you worked with as part of your GK-12 participation: (select all that apply) <ul style="list-style-type: none"> <li>• Teacher 1</li> <li>• Teacher 2 ...</li> </ul>		X	
Schools, organizations and other locations you worked with as part of your GK-12 participation: (select all that apply) <ul style="list-style-type: none"> <li>• School/organization 1</li> <li>• School/organization 2 ...</li> </ul>		X	
<b>Class You Worked With as Part of Your GK-12 Participation</b>			
School		X	
Teacher(s) of This Class (select all that apply) <ul style="list-style-type: none"> <li>• Teacher 1</li> <li>• Teacher 2</li> <li>• ...</li> </ul>		X	
Class Name		X	
Additional Identifying Information (e.g. period, time, marking period)		X	
Grade of students (mark all that apply) <ul style="list-style-type: none"> <li>• K—Kindergarten</li> <li>• 1--1st grade</li> <li>• 2 --2nd grade</li> <li>• 3---3rd grade</li> <li>• 4 --4th grade</li> <li>• 5 --5th grade</li> <li>• 6 --6th grade</li> <li>• 7--7th grade</li> <li>• 8 --8th grade</li> <li>• 9-- 9th grade</li> <li>• 10 --10th grade</li> <li>• 11 --11th grade</li> <li>• 12 --12th grade</li> </ul>		X	
Subjects (select one) <ul style="list-style-type: none"> <li>• Mathematics—Elementary</li> <li>• Mathematics—General</li> </ul>		X	

<p style="text-align: center;"><b>Common Collection Categories</b></p> <p><b>Questions</b></p>	<p style="text-align: center;"><b>Staff and Project Participant Count</b></p>	<p style="text-align: center;"><b>Project Implementation</b></p>	<p style="text-align: center;"><b>Project Outputs</b></p>
<ul style="list-style-type: none"> <li>• Mathematics—Middle school</li> <li>• Mathematics—High school (secondary)</li> <li>• Science—Elementary school</li> <li>• Science—General</li> <li>• Science—Integrated science</li> <li>• Science—Biology</li> <li>• Science—Chemistry</li> <li>• Science—Earth science</li> <li>• Science—Physical science</li> <li>• Science—Physics</li> <li>• Science—Social</li> <li>• Computer science</li> <li>• Other (please specify) _____</li> </ul>			
<p>How is this course considered?</p> <ul style="list-style-type: none"> <li>• Honors/AP/IP</li> <li>• Academic</li> <li>• Non-Academic</li> </ul>		X	
<p>Number of students</p>			X
<p><b>Out-of-Classroom GK-12 Activity</b></p>			
<p>Schools and organizations you worked with as part of your GK-12 participation in this out-of-classroom activity with K-12 students: (select all that apply from preloaded list and add nonpartners)</p> <ul style="list-style-type: none"> <li>• School/organization 1</li> <li>• School/organization 2 ...</li> </ul> <p>Organizations not partnered with project</p>		X	
<p>Activity Type(s): (check all that apply)</p> <ul style="list-style-type: none"> <li>• After school science club</li> <li>• Community outreach on STEM</li> <li>• Field trips</li> <li>• Informal science education activities</li> <li>• Science fair</li> <li>• Schoolyard activities</li> <li>• University/laboratory visits</li> <li>• Other (please specify): _____</li> </ul>		X	
<p>Number of K-12 teachers you worked with as part of your out-of-classroom GK-12 activity</p>		X	
<p>Number of K-12 students you worked with as part of your out-of-classroom GK-12 activity</p>			X
<p><b>Overall Classroom Experience</b></p>			
<p>To what extent did you integrate your research into the GK-12 classroom experience for each of the items listed below (for each item choose one rating)</p>			X
<p style="text-align: center;"><i>Item</i></p>	<p style="text-align: center;"><i>Integration of Research</i></p>		

Common Collection Categories						Questions	Staff and Project Participant	Project Implementation	Project Outputs
Not at All	One Time	Several	Ongoing	Incorporated Into Curriculum					
Developed module/lesson plan	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				
Special presentation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				
Involved teacher in research	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				
Involved students in research	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				
Other (please specify) _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				
Please check the activities that you participated in while in the classroom: (check all that apply)									
<ul style="list-style-type: none"> <li>• Serving as a role model for students</li> <li>• Adapting scientific expertise to the appropriate grade level</li> <li>• Working collaboratively with teachers</li> <li>• Working with students during class</li> <li>• Enhancing lessons/curriculum</li> <li>• Serving as a scientist in the classroom</li> <li>• Showing teachers and students how to use new tools, technology, instrumentation, and measurement</li> <li>• Other (please specify): _____</li> </ul>								X	
<b>9. Honors and Awards During GK-12 Project Participation</b>									
<input type="checkbox"/> Select if no honors or awards to report								X	
<b>Honor or Recognition</b>								X	
Name of honor or recognition								X	
Organization granting the award								X	
Year earned								X	
<b>Other Award: Fellowship, Scholarship, or Grant Other Than GK-12</b>									
Title of the proposal								X	
Awarding agency								X	
Year awarded								X	
<b>10. Development Activities</b>									
Average hours per week spent on GK-12 activities							X		

<p style="text-align: center;"><b>Common Collection Categories</b></p> <p><b>Questions</b></p>	<p style="text-align: center;"><b>Staff and Project Participant Satisfaction</b></p>	<p style="text-align: center;"><b>Project Implementation</b></p>	<p style="text-align: center;"><b>Project Outputs</b></p>																																															
<p>Did you participate in regular training throughout the year specific to your GK-12 project</p> <ul style="list-style-type: none"> <li>• Yes</li> <li>• No, Elaborate why not (and skip the next two questions)</li> </ul>			X																																															
<p>Format of training (check all that apply)</p> <ul style="list-style-type: none"> <li>• Courses</li> <li>• Seminars</li> <li>• Workshops</li> <li>• Other (please specify): _____</li> </ul>			X																																															
<p>Training received:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2" style="text-align: center;">Activity</th> <th colspan="5" style="text-align: center;">Frequency (mark one frequency per activity)</th> </tr> <tr> <th style="text-align: center;">Summer</th> <th style="text-align: center;">Weekly</th> <th style="text-align: center;">Bimonthly</th> <th style="text-align: center;">Monthly</th> <th style="text-align: center;">Other (please specify)</th> </tr> </thead> <tbody> <tr> <td>I took coursework/training (e.g., new courses, seminars) that included regular critique of and feedback on communication skills</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td></td> </tr> <tr> <td>I received training in collaboration and team building</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td></td> </tr> <tr> <td>I received training in developing leadership skills</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td></td> </tr> <tr> <td>I received training in pedagogy (i.e., science of teaching, education, and instructional methods)</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td></td> </tr> <tr> <td>I received training dealing with effective time and task management</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td></td> </tr> <tr> <td>I received other training (please specify): _____</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td></td> </tr> </tbody> </table>	Activity	Frequency (mark one frequency per activity)					Summer	Weekly	Bimonthly	Monthly	Other (please specify)	I took coursework/training (e.g., new courses, seminars) that included regular critique of and feedback on communication skills	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		I received training in collaboration and team building	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		I received training in developing leadership skills	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		I received training in pedagogy (i.e., science of teaching, education, and instructional methods)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		I received training dealing with effective time and task management	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		I received other training (please specify): _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				X
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<p>Did you participate in a GK-12 summer institute?</p> <ul style="list-style-type: none"> <li>• Yes,</li> <li>• No, Elaborate why not (and skip the next question)</li> </ul>		X																																																
<p>How long did the summer institute last? (select one)</p> <ul style="list-style-type: none"> <li>• Less than 1 week</li> <li>• 1 week</li> <li>• 2 weeks</li> <li>• 3 weeks</li> <li>• 4 weeks</li> <li>• More than 4 weeks</li> <li>• Other (please specify): _____</li> </ul>																																																		
<p>Professional development activities associated with your GK-12 project during the reporting period. (check all that apply)</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">Item</th> <th style="text-align: center;">Summer</th> <th style="text-align: center;">Yearlong</th> </tr> </thead> <tbody> <tr> <td>I participated with teachers in content and pedagogy training related to</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> </tbody> </table>	Item	Summer	Yearlong	I participated with teachers in content and pedagogy training related to	<input type="checkbox"/>	<input type="checkbox"/>		X																																										
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<p style="text-align: center;"><b>Common Collection Categories</b></p> <p><b>Questions</b></p>	<p style="text-align: center;"><b>Staff and Project Participant Activities</b></p>	<p style="text-align: center;"><b>Project Implementation</b></p>	<p style="text-align: center;"><b>Project Outputs</b></p>		
developing GK-12 activities. I developed multimedia materials or other cyber-enabled tools to communicate to external audiences. I developed and presented course and/or curriculum materials. I served as a mentor to others (e.g., graduate students, undergraduates, laboratory technicians). I authored/coauthored and submitted grant proposals. I had professional interactions other than internships with non-academic employers (e.g., industry, government) in order to learn about carrier opportunities and requirements. I communicated, worked, or collaborated with scientists of other nationalities. I made presentations to non-academic public. I received other preparation in professional skills development (please specify): _____	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>				
<p><b>11. International Experience</b></p>					
Did you visit a foreign country as part of your GK-12 fellowship? <ul style="list-style-type: none"> <li>• Yes</li> <li>• No, skip the following questions in this section</li> </ul>				X	
<p><b>Experience per Country</b></p>					
Country				X	
Main purpose of visit				X	
Length of international experience in weeks (1-52)				X	
Activities that you participated in as part of your international experience (check all that apply) <ul style="list-style-type: none"> <li>• Attended a conference/workshop outside of the U.S.</li> <li>• Undertook coursework/training outside of the U.S.</li> <li>• Worked as a team with teachers and students overseas</li> <li>• Worked, conducted research/field work, or interned outside of the U.S.</li> <li>• Worked with my classroom teacher overseas</li> <li>• Participated in other international activities (please specify): _____</li> </ul>				X	
Is this international experience related to your current graduate research? (select one) <ul style="list-style-type: none"> <li>• Yes</li> <li>• No</li> </ul>			X		
Most beneficial professional or career related aspect of this international activity					X
Were you prepared for your international experience? <ul style="list-style-type: none"> <li>• Yes</li> <li>• No</li> </ul>				X	
How were you prepared prior to the international visit? (check all that apply) <ul style="list-style-type: none"> <li>• Course</li> <li>• Seminar</li> <li>• Workshop</li> <li>• Other (please specify): _____</li> </ul>				X	
What experiences were included in the preparation for your international				X	

<p style="text-align: center;"><b>Common Collection Categories</b></p> <p><b>Questions</b></p>	<p style="text-align: center;"><b>Staff and Project Participant Satisfaction</b></p>	<p style="text-align: center;"><b>Project Implementation</b></p>	<p style="text-align: center;"><b>Project Outputs</b></p>
experience? (check all that apply) <ul style="list-style-type: none"> <li>• How to work in a foreign laboratory/field work</li> <li>• Graduate education/Education/ laboratory differences in country to be visited</li> <li>• Language</li> <li>• Cultural differences</li> <li>• Learning about the area</li> <li>• Other (please specify): _____</li> </ul>			
What did you accomplish?			X
What types of accomplishments apply to your international experience? (check all that apply) <ul style="list-style-type: none"> <li>• Awards/Honors/Recognitions</li> <li>• Invention/Patent</li> <li>• Presentations</li> <li>• Publications</li> <li>• Other (please specify): _____</li> </ul>			X
Do you plan to continue with this international collaboration? <ul style="list-style-type: none"> <li>• Yes</li> <li>• No</li> </ul>		X	
Specify why you do or do not plan to continue with this international collaboration		X	
<b>12. Research and Professional Experience</b>			
How involved was your faculty advisor in your GK-12 activities? (select one) <ul style="list-style-type: none"> <li>• Not involved</li> <li>• Somewhat involved</li> <li>• Involved</li> <li>• Regularly involved</li> </ul>		X	
How did participation in GK-12 activities affect your graduate research productivity? (check all that apply) <ul style="list-style-type: none"> <li>• I am better organized.</li> <li>• I find my work time is too fragmented.</li> <li>• I am better able to write about my research results.</li> <li>• I am better able to focus on my research.</li> <li>• I have less time to focus on my research.</li> <li>• I am better prepared to present research findings to broad (scientific and nonscientific) audiences.</li> <li>• Other (please specify): _____</li> </ul>			X
How did your GK-12 participation affect your professional pursuits and career goals as a scientist? (check all that apply) <ul style="list-style-type: none"> <li>• I have been better able to figure out what I want to pursue as a career.</li> <li>• I am better prepared for a career in academia.</li> <li>• I am better prepared to pursue a career that involves research and teaching.</li> <li>• I will now consider a wider array of career paths than I did before GK-12.</li> <li>• I am committed to contributing to K–12 STEM education at some point in my career.</li> <li>• I better understand the importance of the role of a scientist in K–12 education.</li> <li>• I am a more globally engaged scientist.</li> <li>• Other (please specify): _____</li> </ul>			X

<p style="text-align: center;"><b>Common Collection Categories</b></p> <p><b>Questions</b></p>	<p style="text-align: center;"><b>Staff and Project Participant Satisfaction</b></p>	<p style="text-align: center;"><b>Project Implementation</b></p>	<p style="text-align: center;"><b>Project Outputs</b></p>
<p>Check the areas in which your knowledge/skills have improved as a result of your GK-12 participation. (check all that apply)</p> <ul style="list-style-type: none"> <li>• Professional and academic writing skills</li> <li>• Pedagogy/teaching skills</li> <li>• Professional speaking or presentation skills</li> <li>• Team building/collaboration skills</li> <li>• Communicating science or math concepts to diverse audiences</li> <li>• Communicating my research and/or area of expertise</li> <li>• Other (please specify): _____</li> </ul>			X
<p><b>Involvement with the GK-12 program</b></p>			
<p>Most important thing you gained from participating in the GK-12 program</p>			X
<p>Most important contribution you made to the GK-12 program</p>			X
<p>List up to two concerns about or areas of improvement for the GK-12 program or your experience with the program.</p> <p>Concern 1</p> <p>Concern 2</p>			X



## GK-12: Crosswalk – Teachers Survey

Common Collection Categories	Staff and Project Participant	Project Implementation	Project Outputs <sup>10</sup>
Questions			
<b>1. Contact Information</b> <i>Some data will be pre-filled with data entered by PI</i>			
Name: Title First name Middle name Last name Suffix	X		
Address: Street address 1 Street address 2 City State Zip or postal code	X		
Phone: Number Extension	X		
Alternate Phone: Number Extension Type: (mark one) • U.S. number • Non-U.S. number	X		
School E-mail Address	X		
Other E-mail Address	X		
School Name(s)	X		
<b>2. Demographic Information</b>			
Ethnicity: (select one) • Hispanic or Latino • Not Hispanic or Latino • Not reported	X		

<sup>8</sup> 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, or project role.

<sup>9</sup> Elements of these characteristics include: Sources and amount of funds, fellowships, scholarships, traineeships, partnerships, training, research methods.

<sup>10</sup> Elements of these characteristics include: research findings, publications, presentations, degrees granted, educational materials.

<p style="text-align: center;"><b>Common Collection Categories</b></p> <p><b>Questions</b></p>	<p style="text-align: center;"><b>Staff and Project Participant Characteristics</b></p>	<p style="text-align: center;"><b>Implementation Characteristics</b></p>	<p style="text-align: center;"><b>Project Outputs</b></p>
<p>Race: (Mark one or more)</p> <ul style="list-style-type: none"> <li>• American Indian or Alaska Native</li> <li>• Asian</li> <li>• Black or African American</li> <li>• Native Hawaiian or Other Pacific Islander</li> <li>• White</li> <li>• Not reported</li> </ul>	X		
<p>Gender:</p> <ul style="list-style-type: none"> <li>• Female</li> <li>• Male</li> <li>• Not reported</li> </ul>	X		
<p>Disability: (Select one)</p> <ul style="list-style-type: none"> <li>• Yes (Mark “yes” if any of the following apply: <ul style="list-style-type: none"> <li>• Deaf or serious difficulty hearing</li> <li>• Blind or serious difficulty seeing even when wearing glasses</li> <li>• Serious difficulty walking or climbing stairs</li> <li>• Other serious disability related to a physical, mental, or emotional condition)</li> </ul> </li> <li>• No</li> <li>• Do not wish to provide</li> </ul>	X		
<p><b>3. Degrees</b></p>			
<p><b>Undergraduate Degree</b></p>			
<p>Institution: U.S. Institution (Name and State) OR International Institution: Name Country</p>	X		
<p>Degree: (select one)</p> <ul style="list-style-type: none"> <li>• B.A.</li> <li>• B.S.</li> <li>• Other (please specify) _____</li> </ul>	X		
<p>Discipline: (select one)</p> <ul style="list-style-type: none"> <li>• Education – Early childhood</li> <li>• Education – Elementary</li> <li>• Education – Middle</li> <li>• Education – High</li> <li>• Education – Other</li> <li>• Chemistry – Analytical</li> <li>• ...see footnote 4 for complete list (other than Education –...)</li> <li>• STEM Education and Learning Research – Other (please specify): _____</li> <li>• Other (please specify): _____</li> </ul>	X		
<p>Date of Completion: Month Year</p>	X		
<p><b>Graduate Degree</b></p>			

<p style="text-align: center;"><b>Common Collection Categories</b></p> <p><b>Questions</b></p>	<p style="text-align: center;"><b>Staff and Project Participant</b></p>	<p style="text-align: center;"><b>Project Implementation</b></p>	<p style="text-align: center;"><b>Project Outputs</b></p>
Institution: U.S. Institution (Name and State) OR International Institution: Name Country	X		
Degree: (select one) <ul style="list-style-type: none"> <li>• M.A.</li> <li>• M.S.</li> <li>• Ed.D.</li> <li>• Ph.D.</li> <li>• Other Postbaccalaureate Degree (please specify) _____</li> </ul>	X		
Discipline: (select one) <ul style="list-style-type: none"> <li>• Education – Early childhood</li> <li>• Education – Elementary</li> <li>• Education – Middle</li> <li>• Education – High</li> <li>• Education – Other</li> <li>• Chemistry – Analytical</li> <li>• ...see footnote 4 for complete list (other than Education –...)</li> <li>• STEM Education and Learning Research – Other (please specify): _____</li> <li>• Other (please specify): _____</li> </ul>	X		
Date of Completion: Month Year	X		
<b>4. Teaching Experience and Credentials</b>			
Total number of years teaching (at any K–12 school)	X		
Do you have any K-12 teaching certification? <ul style="list-style-type: none"> <li>• Yes, complete the following questions in this section</li> <li>• No, skip the following questions in this section</li> </ul>	X		
Grades certified to teach: (select all that apply) <ul style="list-style-type: none"> <li>• Early childhood</li> <li>• Elementary</li> <li>• Middle/junior high</li> <li>• High school</li> </ul>	X		
Subjects certified to teach: (select all that apply) <ul style="list-style-type: none"> <li>• Mathematics</li> <li>• Computer/technology</li> <li>• General studies</li> <li>• Science-Biology</li> <li>• Science-Chemistry</li> <li>• Science-Earth science</li> <li>• Science-Elementary science</li> <li>• Science-General science</li> <li>• Science-Integrated science</li> </ul>	X		

<p style="text-align: center;"><b>Common Collection Categories</b></p> <p><b>Questions</b></p>	<p style="writing-mode: vertical-rl; transform: rotate(180deg);"><b>Staff and Project Participant Certification</b></p>	<p style="writing-mode: vertical-rl; transform: rotate(180deg);"><b>Project Implementation</b></p>	<p style="writing-mode: vertical-rl; transform: rotate(180deg);"><b>Project Outputs</b></p>
<ul style="list-style-type: none"> <li>• Science-Physical science</li> <li>• Science-Physics</li> <li>• Other (please specify) _____</li> </ul>			
<p>Did you receive your certification through an alternative certification program? (e.g., Teach for America)</p> <ul style="list-style-type: none"> <li>• Yes</li> <li>• No</li> </ul>	X		
<p><b>5. Experience Working With GK-12 Fellows</b></p>			
<p><b>Graduate fellows you worked with as part of your GK-12 participation</b></p>		X	
<p><b>Fellow</b></p>			
<p>Fellow Name (Select names from fellow list pre-populated with data entered by the PI)</p>		X	
<p>Subjects (check all that apply)</p> <ul style="list-style-type: none"> <li>• Mathematics—Elementary</li> <li>• Mathematics—General</li> <li>• Mathematics—Middle school</li> <li>• Mathematics—High school (secondary)</li> <li>• Science—Elementary school</li> <li>• Science—General</li> <li>• Science—Integrated science</li> <li>• Science—Biology</li> <li>• Science—Chemistry</li> <li>• Science—Earth science</li> <li>• Science—Physical science</li> <li>• Science—Physics</li> <li>• Science—Social</li> <li>• Computer science</li> <li>• Other (please specify) _____</li> </ul>		X	
<p># Male students</p>			X
<p># Female students</p>			X
<p># Underrepresented minority students</p>			X
<p><b>Activity/Lesson Written/Developed in Classroom Using Fellows as Scientific Experts</b></p>			
<p>Grade level(s) for activity/lesson developed (mark all that apply)</p> <ul style="list-style-type: none"> <li>• Elementary</li> <li>• Middle school</li> <li>• High school</li> <li>• Other (please specify) _____</li> </ul>			X
<p>Academic Disciplines (mark all that apply)</p> <ul style="list-style-type: none"> <li>• Mathematics—Algebra I</li> <li>• Mathematics—Algebra II</li> <li>• Mathematics—Elementary school</li> <li>• Mathematics—Geometry</li> <li>• Science—General</li> </ul>			X

<p style="text-align: center;"><b>Common Collection Categories</b></p> <p><b>Questions</b></p>	<p style="text-align: center;"><b>Staff and Project Participant Activities</b></p>	<p style="text-align: center;"><b>Project Implementation</b></p>	<p style="text-align: center;"><b>Project Outputs</b></p>																																									
<ul style="list-style-type: none"> <li>• Science—Integrated</li> <li>• Science—Biology</li> <li>• Science—Chemistry</li> <li>• Science—Computer</li> <li>• Science—Earth/space</li> <li>• Science—Engineering</li> <li>• Science—Physical science</li> <li>• Science—Physics</li> <li>• Other (please specify): _____</li> </ul>																																												
<p>Brief Description</p>			X																																									
<p><b>Overall Experience Working with Fellows</b></p>																																												
<p>Average hours a week worked directly with GK-12 fellows</p>		X																																										
<p>How many of these hours, that you spent working directly with your GK-12 fellows, were spent on planning/preparation?</p>		X																																										
<p>Please check the activities of the GK-12 fellows with whom you worked (check all that apply)</p> <ul style="list-style-type: none"> <li>• Serving as a role model for students</li> <li>• Teaching/co-teaching lessons</li> <li>• Adapting scientific materials to the appropriate grade level</li> <li>• Working collaboratively with teachers</li> <li>• Working with students</li> <li>• Developing activities</li> <li>• Serving as a scientist in the classroom</li> </ul>		X																																										
<p>Using the following table, indicate how your GK-12 fellows incorporated their research into your classroom.</p>																																												
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2" style="text-align: center; vertical-align: middle;"><i>Item</i></th> <th colspan="5" style="text-align: center;"><i>Integration of Research (select one rating)</i></th> </tr> <tr> <th style="text-align: center;"><i>Not at All</i></th> <th style="text-align: center;"><i>One Time</i></th> <th style="text-align: center;"><i>Several Times</i></th> <th style="text-align: center;"><i>Ongoing</i></th> <th style="text-align: center;"><i>Incorporated Into Curriculum</i></th> </tr> </thead> <tbody> <tr> <td>*Developed module/ lesson plan</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>*Special presentation</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>*Involved teacher in research</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>*Involved students in research</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Other (please specify) _____</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> </tbody> </table>	<i>Item</i>	<i>Integration of Research (select one rating)</i>					<i>Not at All</i>	<i>One Time</i>	<i>Several Times</i>	<i>Ongoing</i>	<i>Incorporated Into Curriculum</i>	*Developed module/ lesson plan	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	*Special presentation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	*Involved teacher in research	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	*Involved students in research	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Other (please specify) _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			X
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Other (please specify) _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																							
<p><b>6. Honors and Awards During GK-12 Project Participation</b></p>																																												
<p><input type="checkbox"/> Declare nothing to report</p>			X																																									
<p><b>Honor or Recognition</b></p>																																												
<p>Name of honor or recognition</p>			X																																									
<p>Organization granting the award</p>			X																																									

<p style="text-align: center;"><b>Common Collection Categories</b></p> <p><b>Questions</b></p>	<b>Staff and Project Participant</b>	<b>Project Implementation</b>	<b>Project Outputs</b>																		
Year earned			X																		
<b>Other Award: Fellowship, Scholarship, or Grant Other Than GK-12</b>																					
Title of proposal			X																		
Awarding agency			X																		
Year awarded			X																		
<b>7. Development Activities</b>																					
Average hours per week spent on GK-12 activities		X																			
<p>Did you participate in regular training throughout the year specific to your GK-12 project?</p> <ul style="list-style-type: none"> <li>• Yes <ul style="list-style-type: none"> <li>Format of training (check all that apply) <ul style="list-style-type: none"> <li>• Courses</li> <li>• Seminars</li> <li>• Workshops</li> <li>• Other (please specify)</li> </ul> </li> </ul> </li> <li>• No <p>Elaborate why not</p> </li> </ul>		X																			
<p>Did you participate in a GK-12 summer institute?</p> <ul style="list-style-type: none"> <li>• Yes <p>How long did the summer institute last? (select one)</p> <ul style="list-style-type: none"> <li>• Less than 1 week</li> <li>• 1 week</li> <li>• 2 weeks</li> <li>• 3 weeks</li> <li>• 4 weeks</li> <li>• More than 4 weeks</li> <li>• Other (please specify) _____</li> </ul> </li> <li>• No <p>Elaborate why not</p> </li> </ul>		X																			
<p>Professional development activities associated with your GK-12 project during the reporting period. Because some of these activities were ongoing throughout the entire reporting period and others were limited to summer institutes, indicate when these professional development activities occurred. Check “Summer,” “Yearlong,” or both, if applicable. (check all that apply)</p> <table border="1" data-bbox="139 1640 1162 1919"> <thead> <tr> <th data-bbox="139 1640 922 1671"><i>Item</i></th> <th data-bbox="922 1640 1036 1671"><i>Summer</i></th> <th data-bbox="1036 1640 1162 1671"><i>Yearlong</i></th> </tr> </thead> <tbody> <tr> <td data-bbox="139 1671 922 1734">I participated in coursework/training sessions that helped increase my science content knowledge.</td> <td data-bbox="922 1671 1036 1734" style="text-align: center;"><input type="checkbox"/></td> <td data-bbox="1036 1671 1162 1734" style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td data-bbox="139 1734 922 1797">I participated in coursework/training leading to certification/recertification</td> <td data-bbox="922 1734 1036 1797" style="text-align: center;"><input type="checkbox"/></td> <td data-bbox="1036 1734 1162 1797" style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td data-bbox="139 1797 922 1829">I participated in coursework/training leading to an advanced degree.</td> <td data-bbox="922 1797 1036 1829" style="text-align: center;"><input type="checkbox"/></td> <td data-bbox="1036 1797 1162 1829" style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td data-bbox="139 1829 922 1892">I made presentations at academic/ professional conferences or meetings</td> <td data-bbox="922 1829 1036 1892" style="text-align: center;"><input type="checkbox"/></td> <td data-bbox="1036 1829 1162 1892" style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td data-bbox="139 1892 922 1919">I developed multimedia materials, Web sites, or other cyber-enabled</td> <td data-bbox="922 1892 1036 1919" style="text-align: center;"><input type="checkbox"/></td> <td data-bbox="1036 1892 1162 1919" style="text-align: center;"><input type="checkbox"/></td> </tr> </tbody> </table>	<i>Item</i>	<i>Summer</i>	<i>Yearlong</i>	I participated in coursework/training sessions that helped increase my science content knowledge.	<input type="checkbox"/>	<input type="checkbox"/>	I participated in coursework/training leading to certification/recertification	<input type="checkbox"/>	<input type="checkbox"/>	I participated in coursework/training leading to an advanced degree.	<input type="checkbox"/>	<input type="checkbox"/>	I made presentations at academic/ professional conferences or meetings	<input type="checkbox"/>	<input type="checkbox"/>	I developed multimedia materials, Web sites, or other cyber-enabled	<input type="checkbox"/>	<input type="checkbox"/>		X	
<i>Item</i>	<i>Summer</i>	<i>Yearlong</i>																			
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<p style="text-align: center;"><b>Common Collection Categories</b></p> <p><b>Questions</b></p>	<p style="text-align: center;"><b>Staff and Project Participant Activities</b></p>	<p style="text-align: center;"><b>Project Implementation</b></p>	<p style="text-align: center;"><b>Project Outputs</b></p>					
tools for teaching/learning. I participated as a team member engaged in joint research. I received training in effective mentoring skills. I participated with fellows in a workshop that stressed teamwork and collaboration. I participated with fellows in content and pedagogy sessions. I participated in training in authoring, submitting, or publishing professional papers. I received other preparation in professional skills development (please specify): _____	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>							
<b>8. International Experience</b>								
Did you visit a foreign country as part of your GK-12 experience? <ul style="list-style-type: none"> <li>• Yes</li> <li>• No (If no, please skip the rest of this section)</li> </ul>							X	
<b>Experience per Country</b>								
Country							X	
Main purpose of visit							X	
Length of international experience in weeks (1-52)							X	
As part of your international experience, did you (check all that apply) <ul style="list-style-type: none"> <li>• Work in a university and share research with graduate students and professors overseas</li> <li>• Work on activities similar to GK-12 with international teachers and students</li> <li>• Develop ongoing international collaborations/projects</li> <li>• Participate in a Research for Teachers program</li> <li>• Take credit/certification/recertification coursework/training</li> <li>• Conduct research/field work</li> <li>• Participate in other international activities (please specify): _____</li> </ul>							X	
Most beneficial professional or career related aspect of this international activity								X
Do you plan to continue with this international collaboration? <ul style="list-style-type: none"> <li>• Yes</li> <li>• No</li> </ul>							X	
Specify why you do or do not plan to continue with this international collaboration							X	
<b>9. Professional Experience</b>								
Has your professional practice in the following areas improved as a result of your participation in GK-12: (check all that apply) <ul style="list-style-type: none"> <li>• Content knowledge of science or math</li> <li>• Access to innovative lesson plans</li> <li>• Ability to incorporate inquiry-based lessons in the future</li> <li>• Desire to continue your own education</li> <li>• Involvement in professional networks/partnerships with university scientists</li> <li>• Enthusiasm for science/math teaching</li> </ul>								X

## GK-12: Number of Respondents, Frequency of Response, and Annual Hour Burden

The estimated average number of annual respondents is 1,267, with an estimated average annual response burden of 3,529 hours. The Web-based collection is an annual activity of the GK-12 program. We estimate an annual average of 86 awards, 588 NSF-funded fellows, and 593 lead/NSF-supported cooperating teachers responding each year. The number of respondents was estimated using data from the current portfolio of GK-12 awards, and the estimated annual hour burden per respondent was determined using the burden information reported by respondents during the last collection cycle, when only NSF-funded fellows and lead/NSF-supported cooperating teachers reported data.

The burden estimated is outlined below.

<b>Respondent Type</b>	<b>Estimated Average Annual No. of Respondents</b>	<b>Estimated Average Annual Burden Hours Per Respondent</b>	<b>Estimated Annual Burden Hour Total</b>
Awardees	86	17	1,462
NSF-funded graduate fellows	588	1.7	1,000
Lead/NSF-supported cooperating teachers	593	1.8	1,067
<b>Total</b>	<b>1,267</b>		<b>3,529</b>



## GK-12: Hour Burden Estimates by Each Form and Aggregate Hour Burdens

As mentioned above respondents will be awardees (as reported by the project's lead PI with help from the project coordinator), NSF-funded graduate fellows, and lead/NSF-supported cooperating teachers. The estimated total annual response burden is 3,529 hours. There is a different Web-based form for each respondent type. The annual burden by form was calculated as follows:

<b>Form Type</b>	<b>Respondent Type</b>	<b>No. of Respondents</b>	<b>Burden Hours Per Respondent</b>	<b>Total Burden Hours</b>
Award form	Awardees	86	17	1,462
Fellow form	NSF-funded graduate fellows	588	1.7	1,000
Teacher form	Lead/NSF-supported cooperating teachers	593	1.8	1,067
<b>Total</b>		<b>1,267</b>		<b>3,529</b>

**GK-12: Estimates of Annualized Cost to Respondents for the Hour Burdens**

The overall annualized cost to the respondents is estimated to be \$108,515. The following table shows the annualized estimates of costs to respondents. The estimated hourly rate for PIs, who are generally university professors, is based on a report from the American Association of University Professors, “Annual Report on the Economic Status of the Profession, 2014-15,” *Academe*, March–April 2015, Survey Report Table 4. 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 \$87,838. The hourly rate for fellows is based on their annual stipend of \$30,000. The rate for cooperating teachers was established by using the Bureau of Labor Statistics’ May 2015 National Occupational Employment and Wage Estimates, which estimates the mean annual wage for those in [Education, Training, and Library Occupations](#) to be \$52,210. Each of these figures was 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:

<b>Respondent Type</b>	<b>No. of Respondents</b>	<b>Burden Hours Per Respondent</b>	<b>Average Hourly Rate</b>	<b>Estimated Annual Cost</b>
Awardees	86	17	\$42	\$61,404
NSF-funded graduate fellows	588	1.7	\$14	\$13,994
Lead/NSF-supported cooperating teachers	593	1.8	\$25	\$26,685
<b>Total</b>	<b>1,267</b>			<b>\$102,083</b>

## GK-12: Estimates of Costs to the Federal Government

Computing the annualized cost to NSF for the GK-12 data collection was done by taking the budget for the most recent year and calculating the costs for each of the following operational activities involved in producing, maintaining, and conducting the data collection:

<b>Operational Activities</b>	<b>Cost Over Three Years</b>
System Development (includes initial development of the database and Web-based application, and later changes requested by the program, e.g., increased reporting tools, additional validations)	\$172,232
System Maintenance, Updates, and Technical Support (system requires updates each year before opening the collection; maintenance is required to keep the system current with technology, e.g., database servers, operating systems)	\$75,700
Data Collection Opening and Support (e.g., online and telephone support to respondents and contacting respondents to encourage completion of the questions), Reporting (as defined by DGE), and Followup Activities (e.g., providing data to other consultants)	\$129,111
<b>Three-Year Total for All Operational Activities</b>	<b>\$377,044</b>

The annualized cost was computed as one-third of the total three-year costs; thus, the annualized cost to NSF for the GK-12 collection is \$125,681.

## GK-12: Questions – Awards Survey

<b>1. Award Information</b>
Award Status
NSF Award ID
Grantee Institution
Award Title
Award Start Date (Month, Day, Year)
Award End Date (Month, Day, Year)
Award Dollar Amount
Annual Carryover Funds: Dollar amount of current year of GK-12 support that will be carried over Total dollar amount that will be carried over Dollar amount of participant support costs that will be carried over Dollar amount of stipends that will be carried over
List the top three subdisciplines associated with your GK-12 project: Subdiscipline 1: _____ Subdiscipline 2: _____ Subdiscipline 3: _____
Award URL
<b>2. Partnerships and Collaborations</b>
<b>U.S. Academic Institution</b>
Institution Name
City
State
Zip Code
<b>Non-U.S. Academic Institution</b>
Institution Name
Country
<b>Non Academic Institution</b>
Institution Name
Institution Type (mark all that apply) • Museum • Science Center • Industrial Partner • Business Partner • Government Agency • National Laboratory • Nonprofit Organization • Other
<b>3. Participating Schools In Your GK-12 Project</b>
<b>K-12 School</b>
School Name

<p>School Level (select one)</p> <ul style="list-style-type: none"> <li>• Elementary (K–5/6)</li> <li>• Middle (6–8)</li> <li>• High school grades (9–12)</li> <li>• Pre-K/kindergarten through middle school (K–8)</li> <li>• Middle through high (7–12)</li> </ul>	
State	
District Name	
<p>School Setting/Location (select one)</p> <ul style="list-style-type: none"> <li>• Rural</li> <li>• Urban</li> <li>• Suburban</li> </ul>	
<p>School Type (mark all that apply)</p> <ul style="list-style-type: none"> <li>• Charter</li> <li>• Private</li> <li>• Public</li> </ul>	
<p>Percentage of students who are eligible for free or reduced price lunch (select one)</p> <ul style="list-style-type: none"> <li>• Not applicable</li> <li>• 1–10%</li> <li>• 11–20%</li> <li>• 21–30%</li> <li>• 31–40%</li> <li>• 41–50%</li> <li>• 51–60%</li> <li>• 61–70%</li> <li>• 71–80%</li> <li>• 81–90%</li> <li>• 91–100%</li> </ul>	
<b>4. Lead Principal Investigators and Co-Principal Investigator Information</b>	
<b>PI/Co-PI</b>	
Name:	
<p>Title</p> <p>First name</p> <p>Middle name</p> <p>Last name</p> <p>Suffix</p>	
<input type="checkbox"/> Lead PI	
Institutional affiliation (Name and State)	
Phone:	
<p>Number</p> <p>Extension</p>	
Alternate Phone:	
<p>Number</p> <p>Extension</p> <p>Type (mark one)</p> <ul style="list-style-type: none"> <li>• U.S. number</li> <li>• Non-U.S. number</li> </ul>	
E-mail Address	
Should the system e-mail a user ID and password to this participant?	
<ul style="list-style-type: none"> <li>• Yes</li> <li>• No</li> </ul>	

Will this participant have authority to enter data? <ul style="list-style-type: none"><li>• Yes</li><li>• No</li></ul>
Should this participant receive announcements and reminders that are sent to the project's lead PI from this system and from the Technical Support staff?? <ul style="list-style-type: none"><li>• Yes</li><li>• No</li></ul>
Title (e.g. Professor)
Affiliation/Academic Department
In what roles, functions, and activities does this PI/co-PI serve the project?

Academic Disciplines (mark all that apply)

- Chemistry – Analytical
- ...see footnote 11 for complete list<sup>11</sup>...
- STEM Education and Learning Research – Other (please specify): \_\_\_\_\_
- Other (please specify): \_\_\_\_\_

Does this co-PI belong to any of the following categories for education faculty?

- Yes (mark all capacities that apply)
  - Education faculty in STEM department/college. For instance, she/he could be an education person who belongs to a Biology department; this person is responsible for biological education related matters that could be biological education research and/or teaching in the department.
  - Education faculty in the school or college of education

<sup>11</sup> Academic disciplines used throughout the GK-12 surveys:

- Chemistry – Analytical
- Chemistry – Bio-inorganic
- Chemistry – Bio-organic
- Chemistry – Biophysical
- Chemistry – Environmental
- Chemistry – Inorganic
- Chemistry – Materials
- Chemistry – Physical
- Chemistry – Polymer
- Chemistry – Theoretical
- Chemistry – Other (please specify):
- Comp/IS/Eng – Artificial Intelligence (including Robotics, Computer Vision, and Human Language Processing)
- Comp/IS/Eng – Computer Architecture and Grids
- Comp/IS/Eng – Computer Science – Languages and Systems
- Comp/IS/Eng – Computer Science – Theoretical Foundations
- Comp/IS/Eng – Database Information Retrieval and Web Search
- Comp/IS/Eng – Graphics and Visualization
- Comp/IS/Eng – Human Computer Interaction
- Comp/IS/Eng – Information Security and Assurance
- Comp/IS/Eng – Information Technology and Organizations
- Comp/IS/Eng – Networks and Communications
- Comp/IS/Eng – Operating Systems and Middleware
- Comp/IS/Eng – Scientific Computing and Informatics
- Comp/IS/Eng – Software Engineering
- Comp/IS/Eng – 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

<ul style="list-style-type: none"> <li>• Education and outreach director in a STEM department, college, university and/or research centers</li> <li>• Other educational faculty (please specify): _____</li> </ul>
<ul style="list-style-type: none"> <li>• No</li> </ul>
<b>Ethnicity (select one)</b> <ul style="list-style-type: none"> <li>• Not Hispanic or Latino</li> <li>• Hispanic or Latino</li> <li>• Not reported</li> </ul>
<b>Race (Mark one or more)</b> <ul style="list-style-type: none"> <li>• American Indian or Alaska Native</li> <li>• Asian</li> </ul>

- 
- 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
  - 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



<ul style="list-style-type: none"> <li>• Black or African American</li> <li>• Native Hawaiian or Pacific Islander</li> <li>• White</li> <li>• Not reported</li> </ul>
<b>Gender (select one)</b> <ul style="list-style-type: none"> <li>• Female</li> <li>• Male</li> <li>• Not reported</li> </ul>
<b>Disability: (Select one)</b> <ul style="list-style-type: none"> <li>• Yes (Mark “yes” if any of the following apply): <ul style="list-style-type: none"> <li>• Deaf or serious difficulty hearing</li> <li>• Blind or serious difficulty seeing even when wearing glasses</li> </ul> </li> </ul>

- 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):
- 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

<ul style="list-style-type: none"> <li>• Serious difficulty walking or climbing stairs</li> <li>• Other serious disability related to a physical, mental, or emotional condition)</li> <li>• No</li> <li>• Do not wish to provide</li> </ul>
<b>5. Project Coordinator Information</b>
<input type="checkbox"/> Mark the box if your project does not have a coordinator and skip the other questions in this section
<b>Project Coordinator</b>
Name:
Title
First name
Middle name
Last name
Suffix
Should the system e-mail a user ID and password to this Project Coordinator?
<ul style="list-style-type: none"> <li>• Yes</li> <li>• No</li> </ul>
Will this participant have the authority to enter data?
<ul style="list-style-type: none"> <li>• Yes</li> <li>• No</li> </ul>
Should this participant receive copies of announcements and reminders that are sent to your project's lead PI from this system and its Technical Support staff?
<ul style="list-style-type: none"> <li>• Yes</li> <li>• No</li> </ul>
Phone:

- 
- 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
  - 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):

Number Extension
Alternate Phone: Number Extension Type (mark one) <ul style="list-style-type: none"> <li>• U.S. number</li> <li>• Non-U.S. number</li> </ul>
E-Mail Address
<b>6. Graduate Fellow Information</b>
<b>Graduate Fellow</b>
Name: Title First name Middle name Last name Suffix
Citizenship (select one) <ul style="list-style-type: none"> <li>• U.S. citizen</li> <li>• Permanent resident</li> <li>• U.S. national</li> <li>• Non-U.S. citizen</li> </ul>
Phone: Number Extension
Alternate Phone: Number Extension Type (mark one) <ul style="list-style-type: none"> <li>• U.S. number</li> <li>• Non-U.S. number</li> </ul>
E-mail Address
Fellowship Start Date Month Year
Fellowship End Date Month Year
Total stipend received by graduate fellow <ul style="list-style-type: none"> <li>• Funded by NSF at the full rate of \$30,000/yr</li> <li>• Funded by other source(s), please specify: If funded by other source(s):     Source(s) of non-NSF funding     \$ Amount</li> </ul>
<b>7. Cooperating Teacher Information</b>
<b>Cooperating Teacher</b>
Name: Title

First name Middle name Last name Suffix
Phone: Number Extension
Alternate Phone: Number Extension Type (mark one) <ul style="list-style-type: none"> <li>• U.S. number</li> <li>• Non-U.S. Number</li> </ul>
School E-mail Address
Other E-mail Address
<input type="checkbox"/> Lead teacher and/or NSF supported Teacher
What NSF GK-12 funds did this teacher receive during the current reporting period? Stipend \$ _____ Travel Budget \$ _____ Materials Budget \$ _____ Other \$ _____ Please Explain: _____
<b>8. Award Evaluator Information</b>
<b>Award Evaluator</b>
Name: Title First name Middle name Last name Suffix
Phone: Number Extension
Alternate Phone: Number Extension Type (mark one) <ul style="list-style-type: none"> <li>• U.S. number</li> <li>• Non-U.S. number</li> </ul>
E-mail Address
Organization/Unit
<b>9. Other Participant Information</b>
<b>Other Participant</b>
Name: Title First name Middle name Last name Suffix

Should the system e-mail a user ID and password for this participant? <ul style="list-style-type: none"> <li>• Yes</li> <li>• No</li> </ul>
Will this participant have the authority to enter data? <ul style="list-style-type: none"> <li>• Yes</li> <li>• No</li> </ul>
Participant Role (select one) <ul style="list-style-type: none"> <li>• Programmer</li> <li>• Technician</li> <li>• Other (Please specify) : _____</li> </ul>
Phone: Number Extension
Alternate Phone: Number Extension Type (mark one) <ul style="list-style-type: none"> <li>• U.S. number</li> <li>• Non-U.S. number</li> </ul>
E-mail Address
<b>10. Academic Achievements Related to GK-12 Activities and Themes</b>
<b>Achievement</b>
Academic Achievement Product (select one) <ul style="list-style-type: none"> <li>• Educational product – Educational research – Journals – Refereed</li> <li>• Educational product – Educational research – Journals – Non-refereed</li> <li>• Educational product – Educational research – Book</li> <li>• Educational product – Educational research – Book Chapter</li> <li>• Educational product – Institutional presentation – Conference presentation/poster</li> <li>• Educational product – Institutional presentation – Conference proceeding</li> <li>• Educational product – Institutional presentation – Invited talk/seminar</li> <li>• Educational product – Instructional product – Instructional materials</li> <li>• Educational product – Instructional product – Teaching modules</li> <li>• Educational product – Instructional product – Curriculums and lesson plans</li> <li>• Scientific Product – Refereed journal</li> <li>• Scientific Product – Non-refereed journal</li> <li>• Scientific Product – Book</li> <li>• Scientific Product – Book chapter</li> <li>• Scientific Product – Conference proceeding</li> <li>• Scientific Product – Conference presentation/poster</li> <li>• Scientific Product – Invited talk</li> <li>• Scientific Product – Seminar</li> <li>• Patent application</li> <li>• Patent awarded</li> <li>• Other (please specify): _____</li> </ul>
Citation (with NSF-funded GK-12 fellows noted by “*” and cooperating teachers noted by “+”)
<b>11. Additional Funding Sources</b>
<b>Source</b>
Source Name
Additional funding source type (select one) <ul style="list-style-type: none"> <li>• Business</li> </ul>

- Foundation
- State government
- Federal Government
- Local government
- Home institution
- Other (please specify): \_\_\_\_\_

Amount of additional funding \$ \_\_\_\_\_

- Additional funding type (mark all that apply)
- Monetary contribution
  - Materials and supplies
  - Equipment
  - Other (please specify): \_\_\_\_\_

**12. Program Outreach Information**

**Outreach Activity**

Activity Title

Activity description

**13. Development Activities**

Fellows' Developmental Activities:

Activity	Frequency (mark one per activity)				
	Summer	Weekly	Bimonthly	Monthly	Other (please specify)
Fellows took coursework/training (e.g., new courses, seminars) that included regular critique of and feedback on communication skills.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Fellows received training in collaboration and team building.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Fellows received training to develop their leadership skills.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Fellows received training in pedagogy (definition: science of teaching, education, and instructional methods).	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Fellows participated with teachers in content and pedagogy sessions related to developing GK-12 activities.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Fellows received training on effective time and task management.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Fellows developed multimedia materials, Web sites, or other cyber-enabled tools to communicate their research activities to external audiences.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Fellows had other preparation in professional skills development (please specify): _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Fellows' other development activities: (mark all that apply)

- Fellows participated with teachers in content and pedagogy sessions related to developing GK-12 activities
- Fellows developed multimedia materials or other cyber-enabled tools to communicate to external audiences
- Fellows developed and presented course and/or curriculum materials
- Fellows served as a mentor to others (e.g., graduate students, undergraduates, laboratory technicians)
- Fellows authored/coauthored and submitted grant proposals
- Fellows had professional interactions other than internships with non-academic employers (e.g.,

<ul style="list-style-type: none"> <li>industry, government) in order to learn about carrier opportunities and requirements</li> <li>Fellows communicated, worked, or collaborated with scientists of other nationalities</li> <li>Fellows made presentations to non-academic public</li> <li>Fellows received other preparation in professional skills development (please specify): _____</li> </ul>		
Cooperating Teachers' Development Activities: (mark all that apply)		
<i>Activity</i>	<i>Summer</i>	<i>Yearlong</i>
Teachers and fellows participated in content and pedagogy training related to developing GK-12 activities.	<input type="checkbox"/>	<input type="checkbox"/>
Teachers participated with fellows in training that stressed teamwork.	<input type="checkbox"/>	<input type="checkbox"/>
Teachers received training in effective mentoring skills.	<input type="checkbox"/>	<input type="checkbox"/>
Teachers participated in coursework/training sessions that helped increase their science content knowledge.	<input type="checkbox"/>	<input type="checkbox"/>
Teachers participated as team members engaged in joint research and educational efforts.	<input type="checkbox"/>	<input type="checkbox"/>
Teachers made presentations at academic/scientific professional conferences or meetings.	<input type="checkbox"/>	<input type="checkbox"/>
Teachers participated in the development of multimedia materials, Web sites, or other cyber-enabled tools for teaching/learning.	<input type="checkbox"/>	<input type="checkbox"/>
Teachers participated in training in authoring, submitting, or publishing professional papers.	<input type="checkbox"/>	<input type="checkbox"/>
Teachers had other preparation in professional skills development (please specify): _____	<input type="checkbox"/>	<input type="checkbox"/>
<b>14. International Experience</b>		
<input type="checkbox"/> Mark the box if your project did not participate in an international experience and skip the other questions in this section.		
What country or countries did any your project participants visit as part of the GK-12 international experience (select all that apply)		
<ul style="list-style-type: none"> <li>Afghanistan</li> <li>Albania ...</li> </ul>		
How many of your fellows engaged in an international experience through the GK-12 project during this reporting period: _____		
How many of your teachers engaged in an international experience through the GK-12 project during this reporting period: _____		
Identify the following international activities involving GK-12 fellows (mark all that apply)		
<ul style="list-style-type: none"> <li>Fellow(s) worked in a university and conducted research overseas.</li> <li>Fellow(s) worked as a team with teachers and students overseas.</li> <li>Fellow(s) worked with their teachers overseas.</li> <li>Fellow(s) attended conferences/workshops.</li> <li>Other international activities (please specify): _____</li> </ul>		
Identify the following international activities involving GK-12 teachers (mark all that apply)		
<ul style="list-style-type: none"> <li>Teacher(s) worked as a team with their fellow in similar to GK-12 activities with international teachers and students.</li> <li>Teacher(s) attended conferences/workshops.</li> <li>Teacher(s) took coursework/training.</li> <li>Teacher(s) worked or conducted research/field work with their fellow.</li> <li>Other international activities (please specify): _____</li> </ul>		
Identify the opportunities for PIs and co-PIs that resulted from the international experiences associated with the GK-12 project. (mark all that apply)		
<ul style="list-style-type: none"> <li>Developed new collaborations</li> <li>Developed new access to facilities/skills</li> <li>Developed new opportunities for research/education/training</li> <li>Other (please specify): _____</li> </ul>		
Do you plan to maintain the collaborations developed from the international experience		

<ul style="list-style-type: none"> <li>• No</li> <li>• Yes, please specify: _____</li> </ul>																																			
Please specify why your project does or does not plan to maintain collaborations developed from the international experiences:																																			
Briefly identify up to three research or educational achievements resulting from the international component of your GK-12 project. Each achievement may involve a single fellow or a group of fellows. Achievement 1: _____ Achievement 2: _____ Achievement 3: _____																																			
<b>15. Program Impact</b>																																			
Do you have an overall plan in place and active with a specific set of goals and timelines for recruitment and retention of GK-12 fellows, including specifics for broadening participation of groups underrepresented in science and engineering? <ul style="list-style-type: none"> <li>• Yes</li> <li>• No</li> </ul>																																			
Regardless of your response to the previous question, please describe up to three of the best practices you employed to recruit qualified fellows to your GK-12 project during this reporting period. Best Practice 1: _____ Best Practice 2: _____ Best Practice 3: _____																																			
Please describe the extent to which each of the following practices has been productive for recruiting fellows overall to your GK-12 project during this reporting period																																			
<table border="1"> <thead> <tr> <th><i>Practice</i></th> <th><i>Productive</i></th> <th><i>Somewhat Productive</i></th> <th><i>Not Productive</i></th> <th><i>N/A</i></th> </tr> </thead> <tbody> <tr> <td>*Relationships with NSF programs that can provide an undergraduate pool of potential GK-12 fellows (e.g., REU's NSF Centers)</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>*Relationships with faculty and programs at other academic institutions</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>*Use of recruiting resources on the GK-12 campus (e.g., career service office, graduate studies office)</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>*Collaboration with other NSF-funded programs to improve recruitment</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>*Use of professional meetings, conferences, associations to communicate, research, and market to potential GK-12 fellows</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>Other (please specify): _____</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> </tbody> </table>	<i>Practice</i>	<i>Productive</i>	<i>Somewhat Productive</i>	<i>Not Productive</i>	<i>N/A</i>	*Relationships with NSF programs that can provide an undergraduate pool of potential GK-12 fellows (e.g., REU's NSF Centers)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	*Relationships with faculty and programs at other academic institutions	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	*Use of recruiting resources on the GK-12 campus (e.g., career service office, graduate studies office)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	*Collaboration with other NSF-funded programs to improve recruitment	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	*Use of professional meetings, conferences, associations to communicate, research, and market to potential GK-12 fellows	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Other (please specify): _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<i>Practice</i>	<i>Productive</i>	<i>Somewhat Productive</i>	<i>Not Productive</i>	<i>N/A</i>																															
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Other (please specify): _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																															
Please describe the extent to which each of the following practices has been productive for recruiting underrepresented minority and women fellows overall to your GK-12 project during this reporting period.																																			



Practice	Underrepresented Minorities				Women			
	Productive	Somewhat	Not	N/A	Productive	Somewhat	Not	N/A
*Relationships with NSF programs that specifically focus on broadening participation of women or underrepresented minorities in STEM (e.g., LSAMP, AGEP, TCUP, ADVANCE)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
*Use of resources on the campus (e.g., academic development programs, offices for campus diversity, or minority and women's student groups)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
*Interaction with professional associations, organizations, or committees serving women or underrepresented minority communities (e.g., National Action Council for Minorities in Engineering, Society of Women Engineers, committees in professional societies focused on minority communities and women)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
*Bridge programs for entering graduate students	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
*Mentoring or advisement arrangements that take advantage of underrepresented minorities or women faculty or graduate students on campus	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
*Relationships with faculty and programs at minority-serving academic institutions (e.g., historically black colleges and universities, Hispanic-serving institutions, tribal colleges)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
*Collaboration with other GK-12 projects for recruitment	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other (please specify): _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**16. Verify Fellows Interactions with K-12 Students**

Approve/edit/add fellow-teacher pairs submitted by fellows and teachers

Teacher Names	Fellow Names									
Last, First	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Approve/edit/add in- classroom locations submitted by fellows

<i>School</i>	<i>Class Name</i>	<i>Other Identifying Information</i>	<i>Subject(s)</i>	<i>GK-12 Teacher(s)</i>	<i>Fellow(s)</i>	<i>Grade(s)</i>	<i># Students</i>	<i>Delete Class</i>
								<input type="checkbox"/>
								<input type="checkbox"/>
								<input type="checkbox"/>

Approve/edit/add out-of-classroom activities submitted by fellows

<i>Location</i>	<i>Activity Type</i>	<i>Fellow(s)</i>	<i># Teachers</i>	<i># Students</i>	<i>Delete Activity</i>
					<input type="checkbox"/>
					<input type="checkbox"/>
					<input type="checkbox"/>

## GK-12: Questions – Fellows Survey

### 1. Contact Information

*Some data will be pre-filled with data entered by the PI*

Name:

Title

First name

Middle name

Last name

Suffix

Social Security Number: (select one)

I choose to report my full SSN: \_\_\_ - \_\_ - \_\_\_\_

I choose to report the last 4 digits of my SSN: \_\_\_\_

Other (if blank system assigns 999-99-9999): \_\_\_\_\_

Current Address:

Street address 1

Street address 2

City

State

Zip or postal code

Phone:

Number

Extension

Alternate Phone:

Number

Extension

Type: (mark one)

• U.S. number

• Non-U.S. number

E-mail Address

### 2. Permanent Contact Information

Permanent Address:

Street address 1

Street address 2

City

State or country

Zip or postal code

Permanent Phone:

Number

Extension

Alternate Phone:

Number

Extension

Type: (mark one)

• U.S. number

• Non-U.S. number

Permanent E-mail Address

<b>3. Demographic Information</b>
<p>Ethnicity: (select one)</p> <ul style="list-style-type: none"> <li>• Hispanic or Latino</li> <li>• Not Hispanic or Latino</li> <li>• Not reported</li> </ul>
<p>Race: (mark one or more)</p> <ul style="list-style-type: none"> <li>• American Indian or Alaska Native</li> <li>• Asian</li> <li>• Black or African American</li> <li>• Native Hawaiian or Other Pacific Islander</li> <li>• White</li> <li>• Not reported</li> </ul>
<p>Gender:</p> <ul style="list-style-type: none"> <li>• Female</li> <li>• Male</li> <li>• Not reported</li> </ul>
<p>Citizenship: (select one)</p> <ul style="list-style-type: none"> <li>• U.S. citizen</li> <li>• Permanent resident</li> <li>• U.S. national</li> <li>• Non-U.S. citizen</li> </ul>
<p>Permanent Resident since: [reported only by permanent residents]</p> <p>Month</p> <p>Year</p>
<p>Disability: (Select one)</p> <ul style="list-style-type: none"> <li>• Yes (Mark “yes” if any of the following apply: <ul style="list-style-type: none"> <li>• Deaf or serious difficulty hearing</li> <li>• Blind or serious difficulty seeing even when wearing glasses</li> <li>• Serious difficulty walking or climbing stairs</li> <li>• Other serious disability related to a physical, mental, or emotional condition)</li> </ul> </li> <li>• No</li> <li>• Do not wish to provide</li> </ul>
<p>Place of Birth (U.S. State or Country)</p>
<p><b>4. Academic History</b></p>
<p>Name of high school/secondary school/institution from which you graduated/received a diploma</p>
<p>Location of High School (City, State or Country, and Zip or Postal code)</p>
<p>School type (select one)</p> <ul style="list-style-type: none"> <li>• Public</li> <li>• Private</li> <li>• Other (please specify): _____</li> </ul>
<p><b>Undergraduate Degree</b></p>
<p>Institution:</p> <p>U.S. Institution (Name and State)</p> <p>OR</p> <p>International Institution:</p> <p>Name</p> <p>Country</p>
<p>Degree: (select one)</p> <ul style="list-style-type: none"> <li>• B.A.</li> <li>• B.S.</li> </ul>

<ul style="list-style-type: none"> <li>• Other (please specify) _____</li> </ul>
<b>Discipline: (select one)</b> <ul style="list-style-type: none"> <li>• Chemistry – Analytical</li> <li>• ...see footnote 11 for complete list...</li> <li>• STEM Education and Learning Research – Other (please specify): _____</li> <li>• Other (please specify): _____</li> </ul>
<b>Academic Department</b>
<b>Date of Completion:</b> Month Year
<b>Graduate Degree</b>
<b>Institution:</b> U.S. Institution (Name and State) OR International Institution: Name Country
<b>Degree: (select one)</b> <ul style="list-style-type: none"> <li>• M.A.</li> <li>• M.S.</li> <li>• Ph.D.</li> <li>• Other Postbaccalaureate Degree(please specify) _____</li> </ul>
<b>Discipline: (select one)</b> <ul style="list-style-type: none"> <li>• Chemistry – Analytical</li> <li>• ...see footnote 11 for complete list...</li> <li>• STEM Education and Learning Research – Other (please specify): _____</li> <li>• Other (please specify): _____</li> </ul>
<b>Academic Department</b>
<b>Date of Completion:</b> Month Year
<b>5. Previous Employment and Teaching Experience</b>
Do you have a K-12 teaching certification? <ul style="list-style-type: none"> <li>• Yes, please specify _____</li> <li>• No</li> </ul>
Do you have any prior K-12 teaching experience? <ul style="list-style-type: none"> <li>• Yes, please specify _____</li> <li>• No</li> </ul>
Have you taken/are you taking any education certification courses? <ul style="list-style-type: none"> <li>• Yes, please specify _____</li> <li>• No</li> </ul>
Were you employed in the public or private sector for 1 or more years after receiving your first undergraduate degree and prior to becoming a GK-12 fellow? <ul style="list-style-type: none"> <li>• Yes</li> <li>• No</li> </ul>
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 a GK-12 fellow
<b>6. Current Graduate Work</b>
Current Graduate Institution: _____

<p>Date when you started your program:</p> <p>Month _____</p> <p>Year _____</p>
<p>Expected Graduation Date</p> <p>Month _____</p> <p>Year _____</p>
<p>If you expect to graduate within one year, what type of employment are you pursuing? (check all that apply)</p> <ul style="list-style-type: none"> <li>• Government - Postdoc</li> <li>• Government - Full-time position</li> <li>• Government - Part-time position</li> <li>• Industry/Business - Postdoc</li> <li>• Industry/Business - Full-time position</li> <li>• Industry/Business - Part-time position</li> <li>• Educational Institution (college, University, or K-12) - Postdoc</li> <li>• Educational Institution (college, University, or K-12) - Tenure-track faculty</li> <li>• Educational Institution (college, University, or K-12) - Non-tenure-track faculty</li> <li>• Educational Institution (college, University, or K-12) - Staff</li> <li>• Nonprofit - Postdoc</li> <li>• Nonprofit - Full-time position</li> <li>• Nonprofit - Part-time position</li> <li>• Self-employed/Entrepreneur</li> </ul>
<p>If you expect to graduate within one year, what type of employment would you prefer most? (check one)</p> <ul style="list-style-type: none"> <li>• Government - Postdoc</li> <li>• Government - Full-time position</li> <li>• Government - Part-time position</li> <li>• Industry/Business - Postdoc</li> <li>• Industry/Business - Full-time position</li> <li>• Industry/Business - Part-time position</li> <li>• Educational Institution (college, University, or K-12) - Postdoc</li> <li>• Educational Institution (college, University, or K-12) - Tenure-track faculty</li> <li>• Educational Institution (college, University, or K-12) - Non-tenure-track faculty</li> <li>• Educational Institution (college, University, or K-12) - Staff</li> <li>• Nonprofit - Postdoc</li> <li>• Nonprofit - Full-time position</li> <li>• Nonprofit - Part-time position</li> <li>• Self-employed/Entrepreneur</li> </ul>
<p>Academic level during fellowship year: (select one)</p> <ul style="list-style-type: none"> <li>• Master's 1st year</li> <li>• Master's 2nd year</li> <li>• Master's 3rd year</li> <li>• Doctorate 1st year</li> <li>• Doctorate 2nd year</li> <li>• Doctorate 3rd year</li> <li>• Doctorate 4th year</li> <li>• Doctorate 5th year</li> <li>• Other (please specify level and year) _____</li> </ul>
<p>Discipline: (select one)</p> <ul style="list-style-type: none"> <li>• Chemistry – Analytical</li> <li>• ...see footnote 11 for complete list...</li> <li>• STEM Education and Learning Research – Other (please specify): _____</li> <li>• Other (please specify): _____</li> </ul>
<p>Academic Department _____</p>
<p>Amount of NSF funds in your GK-12 stipend for the current academic year: (select one)</p> <ul style="list-style-type: none"> <li>• \$30,000 stipend</li> </ul>

<ul style="list-style-type: none"> <li>• \$10,500 cost of education</li> <li>• Less than \$10,500; specify the amount:\$_____</li> </ul>
<p>Did you have to pay tuition and fees in excess of the \$10,500 allowance for the cost of education?</p> <ul style="list-style-type: none"> <li>• Yes</li> <li>• No</li> </ul>
<p>If yes, how much did you have to pay?</p>
<p>How does your fellowship stipend compare to stipends received by regular teaching or research fellowships at your institution?</p> <ul style="list-style-type: none"> <li>• Greater than others</li> <li>• Equal to others</li> <li>• Less than others</li> <li>• Do not know</li> </ul>
<p>What is your research topic? (<i>research topic does not have to be related to GK-12</i>)</p>
<p>Does your research involve the following: (check all that apply)</p> <ul style="list-style-type: none"> <li>• Bioinformatics</li> <li>• Biotechnology</li> <li>• Civil Infrastructure</li> <li>• Climate change</li> <li>• Computational Science and Engineering</li> <li>• Cyber infrastructure Enabled Discovery and Learning</li> <li>• Device Development</li> <li>• Energy and Alternative Energy</li> <li>• Entrepreneurialism</li> <li>• Evolution and Development</li> <li>• Materials Science and Engineering</li> <li>• Nanoscience and Nanotechnology</li> <li>• Neuroscience: Biology and Psychology</li> <li>• Sensing, Signals, Imaging and Signal Processing</li> <li>• Social and Behavioral Sciences</li> <li>• Sustainability, Ecology and the Environment</li> <li>• Water and water quality</li> <li>• Other leading-edge science (please specify): _____</li> </ul>
<p><b>7. Research Advisor Information</b></p>
<p>Advisor's Name:</p> <p>Title</p> <p>First name</p> <p>Middle name</p> <p>Last name</p> <p>Suffix</p>
<p>Advisor's Academic Discipline: (select one)</p> <ul style="list-style-type: none"> <li>• Chemistry – Analytical</li> <li>• ...see footnote 11 for complete list...</li> <li>• STEM Education and Learning Research – Other (please specify): _____</li> <li>• Other (please specify): _____</li> </ul>
<p>Advisor's Academic Department</p>
<p>Advisor's phone:</p> <p>Number</p> <p>Extension</p>
<p>Advisor's E-mail Address</p>

<b>8. Interactions with K-12 Students</b>
Teachers you worked with as part of your GK-12 participation: (select all that apply) <ul style="list-style-type: none"> <li>• Teacher 1</li> <li>• Teacher 2 ...</li> </ul>
Schools, organizations and other locations you worked with as part of your GK-12 participation: (select all that apply) <ul style="list-style-type: none"> <li>• School/organization 1</li> <li>• School/organization 2 ...</li> </ul>
<b>Class You Worked With as Part of Your GK-12 Participation</b>
School
Teacher(s) of This Class (select all that apply) <ul style="list-style-type: none"> <li>• Teacher 1</li> <li>• Teacher 2</li> <li>• ...</li> </ul>
Class Name
Additional Identifying Information (e.g. period, time, marking period)
Grade of students (mark all that apply) <ul style="list-style-type: none"> <li>• K—Kindergarten</li> <li>• 1--1st grade</li> <li>• 2 --2nd grade</li> <li>• 3---3rd grade</li> <li>• 4 --4th grade</li> <li>• 5 --5th grade</li> <li>• 6 --6th grade</li> <li>• 7--7th grade</li> <li>• 8 --8th grade</li> <li>• 9-- 9th grade</li> <li>• 10 --10th grade</li> <li>• 11 --11th grade</li> <li>• 12 --12th grade</li> </ul>
Subjects (select one) <ul style="list-style-type: none"> <li>• Mathematics—Elementary</li> <li>• Mathematics—General</li> <li>• Mathematics—Middle school</li> <li>• Mathematics—High school (secondary)</li> <li>• Science—Elementary school</li> <li>• Science—General</li> <li>• Science—Integrated science</li> <li>• Science—Biology</li> <li>• Science—Chemistry</li> <li>• Science—Earth science</li> <li>• Science—Physical science</li> <li>• Science—Physics</li> <li>• Science—Social</li> <li>• Computer science</li> <li>• Other (please specify) _____</li> </ul>
How is this course considered? <ul style="list-style-type: none"> <li>• Honors/AP/IP</li> <li>• Academic</li> <li>• Non-Academic</li> </ul>
Number of students
<b>Out-of-Classroom GK-12 Activity</b>
Schools and organizations you worked with as part of your GK-12 participation in this out-of-classroom activity with K-12 students: (select all that apply from preloaded list and add



nonpartners)  
 • School/organization 1  
 • School/organization 2 ...  
 Organizations not partnered with project

Activity Type(s): (check all that apply)  
 • After school science club  
 • Community outreach on STEM  
 • Field trips  
 • Informal science education activities  
 • Science fair  
 • Schoolyard activities  
 • University/laboratory visits  
 • Other (please specify): \_\_\_\_\_

Number of K-12 teachers you worked with as part of your out-of-classroom GK-12 activity

Number of K-12 students you worked with as part of your out-of-classroom GK-12 activity

**Overall Classroom Experience**

To what extent did you integrate your research into the GK-12 classroom experience for each of the items listed below (for each item choose one rating)

Item	Integration of Research				
	Not at All				
Developed module/lesson plan	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Special presentation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Involved teacher in research	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Involved students in research	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other (please specify) _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Please check the activities that you participated in while in the classroom: (check all that apply)

- Serving as a role model for students
- Adapting scientific expertise to the appropriate grade level
- Working collaboratively with teachers
- Working with students during class
- Enhancing lessons/curriculum
- Serving as a scientist in the classroom
- Showing teachers and students how to use new tools, technology, instrumentation, and measurement
- Other (please specify): \_\_\_\_\_

**9. Honors and Awards During GK-12 Project Participation**

Select if no honors or awards to report

**Honor or Recognition**

Name of honor or recognition

Organization granting the award

Year earned

**Other Award: Fellowship, Scholarship, or Grant Other Than GK-12**

Title of the proposal

Awarding agency

Year awarded

**10. Development Activities**

Average hours per week spent on GK-12 activities

Did you participate in regular training throughout the year specific to your GK-12 project

- Yes
- No, Elaborate why not (and skip the next two questions)

Format of training (check all that apply)

- Courses
- Seminars
- Workshops
- Other (please specify): \_\_\_\_\_

Training received:

Activity	Frequency (mark one frequency per activity)				
	Summer	Weekly	Bimonthly	Monthly	Other (please specify)
I took coursework/training (e.g., new courses, seminars) that included regular critique of and feedback on communication skills	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
I received training in collaboration and team building	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
I received training in developing leadership skills	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
I received training in pedagogy (i.e., science of teaching, education, and instructional methods)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
I received training dealing with effective time and task management	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
I received other training (please specify): _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Did you participate in a GK-12 summer institute?

- Yes,
- No, Elaborate why not (and skip the next question)

How long did the summer institute last? (select one)

- Less than 1 week
- 1 week
- 2 weeks
- 3 weeks
- 4 weeks
- More than 4 weeks
- Other (please specify): \_\_\_\_\_

Professional development activities associated with your GK-12 project during the reporting period. (check all that apply)

Item	Summer	Yearlong
I participated with teachers in content and pedagogy training related to developing GK-12 activities.	<input type="checkbox"/>	<input type="checkbox"/>
I developed multimedia materials or other cyber-enabled tools to communicate to external audiences.	<input type="checkbox"/>	<input type="checkbox"/>

I developed and presented course and/or curriculum materials.	<input type="checkbox"/>	<input type="checkbox"/>
I served as a mentor to others (e.g., graduate students, undergraduates, laboratory technicians).	<input type="checkbox"/>	<input type="checkbox"/>
I authored/coauthored and submitted grant proposals.	<input type="checkbox"/>	<input type="checkbox"/>
I had professional interactions other than internships with non-academic employers (e.g., industry, government) in order to learn about career opportunities and requirements.	<input type="checkbox"/>	<input type="checkbox"/>
I communicated, worked, or collaborated with scientists of other nationalities.	<input type="checkbox"/>	<input type="checkbox"/>
I made presentations to non-academic public.	<input type="checkbox"/>	<input type="checkbox"/>
I received other preparation in professional skills development (please specify): _____	<input type="checkbox"/>	<input type="checkbox"/>

**11. International Experience**

Did you visit a foreign country as part of your GK-12 fellowship?

- Yes
- No, skip the following questions in this section

**Experience per Country**

Country \_\_\_\_\_

Main purpose of visit \_\_\_\_\_

Length of international experience in weeks (1-52) \_\_\_\_\_

Activities that you participated in as part of your international experience (check all that apply)

- Attended a conference/workshop outside of the U.S.
- Undertook coursework/training outside of the U.S.
- Worked as a team with teachers and students overseas
- Worked, conducted research/field work, or interned outside of the U.S.
- Worked with my classroom teacher overseas
- Participated in other international activities (please specify): \_\_\_\_\_

Is this international experience related to your current graduate research? (select one)

- Yes
- No

Most beneficial professional or career related aspect of this international activity \_\_\_\_\_

Were you prepared for your international experience?

- Yes
- No

How were you prepared prior to the international visit? (check all that apply)

- Course
- Seminar
- Workshop
- Other (please specify): \_\_\_\_\_

What experiences were included in the preparation for your international experience? (check 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?

What types of accomplishments apply to your international experience? (check all that apply)

- Awards/Honors/Recognitions
- Invention/Patent
- Presentations
- Publications
- Other (please specify): \_\_\_\_\_

Do you plan to continue with this international collaboration?

<ul style="list-style-type: none"> <li>• Yes</li> <li>• No</li> </ul>
Specify why you do or do not plan to continue with this international collaboration
<b>12. Research and Professional Experience</b>
How involved was your faculty advisor in your GK-12 activities? (select one) <ul style="list-style-type: none"> <li>• Not involved</li> <li>• Somewhat involved</li> <li>• Involved</li> <li>• Regularly involved</li> </ul>
How did participation in GK-12 activities affect your graduate research productivity? (check all that apply) <ul style="list-style-type: none"> <li>• I am better organized.</li> <li>• I find my work time is too fragmented.</li> <li>• I am better able to write about my research results.</li> <li>• I am better able to focus on my research.</li> <li>• I have less time to focus on my research.</li> <li>• I am better prepared to present research findings to broad (scientific and nonscientific) audiences.</li> <li>• Other (please specify): _____</li> </ul>
How did your GK-12 participation affect your professional pursuits and career goals as a scientist? (check all that apply) <ul style="list-style-type: none"> <li>• I have been better able to figure out what I want to pursue as a career.</li> <li>• I am better prepared for a career in academia.</li> <li>• I am better prepared to pursue a career that involves research and teaching.</li> <li>• I will now consider a wider array of career paths than I did before GK-12.</li> <li>• I am committed to contributing to K–12 STEM education at some point in my career.</li> <li>• I better understand the importance of the role of a scientist in K–12 education.</li> <li>• I am a more globally engaged scientist.</li> <li>• Other (please specify): _____</li> </ul>
Check the areas in which your knowledge/skills have improved as a result of your GK-12 participation. (check all that apply) <ul style="list-style-type: none"> <li>• Professional and academic writing skills</li> <li>• Pedagogy/teaching skills</li> <li>• Professional speaking or presentation skills</li> <li>• Team building/collaboration skills</li> <li>• Communicating science or math concepts to diverse audiences</li> <li>• Communicating my research and/or area of expertise</li> <li>• Other (please specify): _____</li> </ul>
<b>Involvement with the GK-12 program</b>
Most important thing you gained from participating in the GK-12 program
Most important contribution you made to the GK-12 program
List up to two concerns about or areas of improvement for the GK-12 program or your experience with the program. <p>Concern 1</p> <p>Concern 2</p>

## GK-12: Questions – Teachers Survey

<b>1. Contact Information</b> <i>Some data will be pre-filled with data entered by PI</i>
Name: Title First name Middle name Last name Suffix
Address: Street address 1 Street address 2 City State Zip or postal code
Phone: Number Extension
Alternate Phone: Number Extension Type: (mark one) <ul style="list-style-type: none"><li>• U.S. number</li><li>• Non-U.S. number</li></ul>
School E-mail Address
Other E-mail Address
School Name(s)
<b>2. Demographic Information</b>
Ethnicity: (select one) <ul style="list-style-type: none"><li>• Hispanic or Latino</li><li>• Not Hispanic or Latino</li><li>• Not reported</li></ul>
Race: (Mark one or more) <ul style="list-style-type: none"><li>• American Indian or Alaska Native</li><li>• Asian</li><li>• Black or African American</li><li>• Native Hawaiian or Other Pacific Islander</li><li>• White</li><li>• Not reported</li></ul>
Gender: <ul style="list-style-type: none"><li>• Female</li><li>• Male</li><li>• Not reported</li></ul>

<p>Disability: (Select one)</p> <ul style="list-style-type: none"> <li>• Yes (Mark “yes” if any of the following apply: <ul style="list-style-type: none"> <li>• Deaf or serious difficulty hearing</li> <li>• Blind or serious difficulty seeing even when wearing glasses</li> <li>• Serious difficulty walking or climbing stairs</li> <li>• Other serious disability related to a physical, mental, or emotional condition)</li> </ul> </li> <li>• No</li> <li>• Do not wish to provide</li> </ul>
<p><b>3. Degrees</b></p>
<p><b>Undergraduate Degree</b></p>
<p>Institution:  U.S. Institution (Name and State)  OR  International Institution:  Name  Country</p>
<p>Degree: (select one)</p> <ul style="list-style-type: none"> <li>• B.A.</li> <li>• B.S.</li> <li>• Other (please specify) _____</li> </ul>
<p>Discipline: (select one)</p> <ul style="list-style-type: none"> <li>• Education – Early childhood</li> <li>• Education – Elementary</li> <li>• Education – Middle</li> <li>• Education – High</li> <li>• Education – Other</li> <li>• Chemistry – Analytical</li> <li>• ...see footnote 4 for complete list (other than Education –...)</li> <li>• STEM Education and Learning Research – Other (please specify): _____</li> <li>• Other (please specify): _____</li> </ul>
<p>Date of Completion:  Month  Year</p>
<p><b>Graduate Degree</b></p>
<p>Institution:  U.S. Institution (Name and State)  OR  International Institution:  Name  Country</p>
<p>Degree: (select one)</p> <ul style="list-style-type: none"> <li>• M.A.</li> <li>• M.S.</li> <li>• Ed.D.</li> <li>• Ph.D.</li> <li>• Other Postbaccalaureate Degree (please specify) _____</li> </ul>
<p>Discipline: (select one)</p> <ul style="list-style-type: none"> <li>• Education – Early childhood</li> <li>• Education – Elementary</li> <li>• Education – Middle</li> <li>• Education – High</li> <li>• Education – Other</li> <li>• Chemistry – Analytical</li> </ul>

<ul style="list-style-type: none"> <li>• ...see footnote 4 for complete list (other than Education –...)</li> <li>• STEM Education and Learning Research – Other (please specify): _____</li> <li>• Other (please specify): _____</li> </ul>
<b>Date of Completion:</b> Month Year
<b>4. Teaching Experience and Credentials</b>
<b>Total number of years teaching (at any K–12 school)</b>
<b>Do you have any K-12 teaching certification?</b> <ul style="list-style-type: none"> <li>• Yes, complete the following questions in this section</li> <li>• No, skip the following questions in this section</li> </ul>
<b>Grades certified to teach: (select all that apply)</b> <ul style="list-style-type: none"> <li>• Early childhood</li> <li>• Elementary</li> <li>• Middle/junior high</li> <li>• High school</li> </ul>
<b>Subjects certified to teach: (select all that apply)</b> <ul style="list-style-type: none"> <li>• Mathematics</li> <li>• Computer/technology</li> <li>• General studies</li> <li>• Science-Biology</li> <li>• Science-Chemistry</li> <li>• Science-Earth science</li> <li>• Science-Elementary science</li> <li>• Science-General science</li> <li>• Science-Integrated science</li> <li>• Science-Physical science</li> <li>• Science-Physics</li> <li>• Other (please specify) _____</li> </ul>
<b>Did you receive your certification through an alternative certification program? (e.g., Teach for America)</b> <ul style="list-style-type: none"> <li>• Yes</li> <li>• No</li> </ul>
<b>5. Experience Working With GK-12 Fellows</b>
<b>Graduate fellows you worked with as part of your GK-12 participation</b>
<b>Fellow</b>
<b>Fellow Name (Select names from fellow list pre-populated with data entered by the PI)</b>
<b>Subjects (check all that apply)</b> <ul style="list-style-type: none"> <li>• Mathematics—Elementary</li> <li>• Mathematics—General</li> <li>• Mathematics—Middle school</li> <li>• Mathematics—High school (secondary)</li> <li>• Science—Elementary school</li> <li>• Science—General</li> <li>• Science—Integrated science</li> <li>• Science—Biology</li> <li>• Science—Chemistry</li> <li>• Science—Earth science</li> <li>• Science—Physical science</li> <li>• Science—Physics</li> <li>• Science—Social</li> </ul>

<ul style="list-style-type: none"> <li>• Computer science</li> <li>• Other (please specify) _____</li> </ul>																																									
# Male students																																									
# Female students																																									
# Underrepresented minority students																																									
<b>Activity/Lesson Written/Developed in Classroom Using Fellows as Scientific Experts</b>																																									
Grade level(s) for activity/lesson developed (mark all that apply) <ul style="list-style-type: none"> <li>• Elementary</li> <li>• Middle school</li> <li>• High school</li> <li>• Other (please specify) _____</li> </ul>																																									
Academic Disciplines (mark all that apply) <ul style="list-style-type: none"> <li>• Mathematics—Algebra I</li> <li>• Mathematics—Algebra II</li> <li>• Mathematics—Elementary school</li> <li>• Mathematics—Geometry</li> <li>• Science—General</li> <li>• Science—Integrated</li> <li>• Science—Biology</li> <li>• Science—Chemistry</li> <li>• Science—Computer</li> <li>• Science—Earth/space</li> <li>• Science—Engineering</li> <li>• Science—Physical science</li> <li>• Science—Physics</li> <li>• Other (please specify): _____</li> </ul>																																									
Brief Description																																									
<b>Overall Experience Working with Fellows</b>																																									
Average hours a week worked directly with GK-12 fellows																																									
How many of these hours, that you spent working directly with your GK-12 fellows, were spent on planning/preparation?																																									
Please check the activities of the GK-12 fellows with whom you worked (check all that apply) <ul style="list-style-type: none"> <li>• Serving as a role model for students</li> <li>• Teaching/co-teaching lessons</li> <li>• Adapting scientific materials to the appropriate grade level</li> <li>• Working collaboratively with teachers</li> <li>• Working with students</li> <li>• Developing activities</li> <li>• Serving as a scientist in the classroom</li> </ul>																																									
Using the following table, indicate how your GK-12 fellows incorporated their research into your classroom.																																									
<table border="1"> <thead> <tr> <th rowspan="2">Item</th> <th colspan="5">Integration of Research (select one rating)</th> </tr> <tr> <th>Not at All</th> <th>One Time</th> <th>Several Times</th> <th>Ongoing</th> <th>Incorporated Into Curriculum</th> </tr> </thead> <tbody> <tr> <td>*Developed module/ lesson plan</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>*Special presentation</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>*Involved teacher in research</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>*Involved students in research</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>Other (please specify) _____</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> </tbody> </table>	Item	Integration of Research (select one rating)					Not at All	One Time	Several Times	Ongoing	Incorporated Into Curriculum	*Developed module/ lesson plan	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	*Special presentation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	*Involved teacher in research	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	*Involved students in research	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Other (please specify) _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Item		Integration of Research (select one rating)																																							
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Other (please specify) _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																				



<b>6. Honors and Awards During GK-12 Project Participation</b>		
<input type="checkbox"/> Declare nothing to report		
<b>Honor or Recognition</b>		
Name of honor or recognition		
Organization granting the award		
Year earned		
<b>Other Award: Fellowship, Scholarship, or Grant Other Than GK-12</b>		
Title of proposal		
Awarding agency		
Year awarded		
<b>7. Development Activities</b>		
Average hours per week spent on GK-12 activities		
Did you participate in regular training throughout the year specific to your GK-12 project?		
<ul style="list-style-type: none"> <li>• Yes <ul style="list-style-type: none"> <li>Format of training (check all that apply) <ul style="list-style-type: none"> <li>• Courses</li> <li>• Seminars</li> <li>• Workshops</li> <li>• Other (please specify)</li> </ul> </li> </ul> </li> <li>• No <ul style="list-style-type: none"> <li>Elaborate why not</li> </ul> </li> </ul>		
Did you participate in a GK-12 summer institute?		
<ul style="list-style-type: none"> <li>• Yes <ul style="list-style-type: none"> <li>How long did the summer institute last? (select one) <ul style="list-style-type: none"> <li>• Less than 1 week</li> <li>• 1 week</li> <li>• 2 weeks</li> <li>• 3 weeks</li> <li>• 4 weeks</li> <li>• More than 4 weeks</li> <li>• Other (please specify) _____</li> </ul> </li> </ul> </li> <li>• No <ul style="list-style-type: none"> <li>Elaborate why not</li> </ul> </li> </ul>		
Professional development activities associated with your GK-12 project during the reporting period. Because some of these activities were ongoing throughout the entire reporting period and others were limited to summer institutes, indicate when these professional development activities occurred. Check "Summer," "Yearlong," or both, if applicable. (check all that apply)		
<i>Item</i>	<i>Summer</i>	<i>Yearlong</i>
I participated in coursework/training sessions that helped increase my science content knowledge.	<input type="checkbox"/>	<input type="checkbox"/>
I participated in coursework/training leading to certification/recertification	<input type="checkbox"/>	<input type="checkbox"/>
I participated in coursework/training leading to an advanced degree.	<input type="checkbox"/>	<input type="checkbox"/>
I made presentations at academic/ professional conferences or meetings	<input type="checkbox"/>	<input type="checkbox"/>
I developed multimedia materials, Web sites, or other cyber-enabled tools for teaching/learning.	<input type="checkbox"/>	<input type="checkbox"/>
I participated as a team member engaged in joint research.	<input type="checkbox"/>	<input type="checkbox"/>
I received training in effective mentoring skills.	<input type="checkbox"/>	<input type="checkbox"/>
I participated with fellows in a workshop that stressed teamwork and collaboration.	<input type="checkbox"/>	<input type="checkbox"/>
I participated with fellows in content and pedagogy sessions.	<input type="checkbox"/>	<input type="checkbox"/>
I participated in training in authoring, submitting, or publishing professional papers.	<input type="checkbox"/>	<input type="checkbox"/>
I received other preparation in professional skills development (please specify):	<input type="checkbox"/>	<input type="checkbox"/>

<b>8. International Experience</b>
Did you visit a foreign country as part of your GK-12 experience? <ul style="list-style-type: none"> <li>• Yes</li> <li>• No (If no, please skip the rest of this section)</li> </ul>
<b>Experience per Country</b>
Country
Main purpose of visit
Length of international experience in weeks (1-52)
As part of your international experience, did you (check all that apply) <ul style="list-style-type: none"> <li>• Work in a university and share research with graduate students and professors overseas</li> <li>• Work on activities similar to GK-12 with international teachers and students</li> <li>• Develop ongoing international collaborations/projects</li> <li>• Participate in a Research for Teachers program</li> <li>• Take credit/certification/recertification coursework/training</li> <li>• Conduct research/field work</li> <li>• Participate in other international activities (please specify): _____</li> </ul>
Most beneficial professional or career related aspect of this international activity
Do you plan to continue with this international collaboration? <ul style="list-style-type: none"> <li>• Yes</li> <li>• No</li> </ul>
Specify why you do or do not plan to continue with this international collaboration
<b>9. Professional Experience</b>
Has your professional practice in the following areas improved as a result of your participation in GK-12: (check all that apply) <ul style="list-style-type: none"> <li>• Content knowledge of science or math</li> <li>• Access to innovative lesson plans</li> <li>• Ability to incorporate inquiry-based lessons in the future</li> <li>• Desire to continue your own education</li> <li>• Involvement in professional networks/partnerships with university scientists</li> <li>• Enthusiasm for science/math teaching</li> </ul>