

Attachment A1

**Centers of Research Excellence in Science and Technology (CREST)
Monitoring System**

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CREST: Crosswalk

Common Collection Categories	Staff and Project Participant Characteristics ¹	Project Implementation Characteristics ²	Project Outputs ³
Questions			
1. Center Information			
Center Name		X	
Street Address 1 Street Address 2 City State ZIP Code	X		
Phone Number	X		
Fax Number	X		
E-mail Address	X		
URL	X		
Undergraduate Enrollment in CREST Program		X	
Graduate Enrollment in CREST Program		X	
2. Institutions			
Institution Name	X		
Type of Institution (Select one) <ul style="list-style-type: none"> • Federal Government • Industry • Local Government • Non-Profit • State Government • University or College • Other 	X		
City State/Region Country	X		
3. Participant Information			
Principal Investigator (PI)/ Co-Principal Investigator (Co-PI)			
Name (First Name, Middle Name, Last Name)	X		

¹ 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.

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

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

<p style="text-align: center;">Common Collection Categories</p> <p>Questions</p>	<p style="text-align: center;">Staff and Project Participant Characteristics</p>	<p style="text-align: center;">Project Implementation Characteristics</p>	<p style="text-align: center;">Project Outputs</p>
<p>Did this participant leave the program in a prior reporting period, but is still associated with an accomplishment recorded this year?</p> <ul style="list-style-type: none"> • Yes (<i>No other questions in the section are asked.</i>) • No (<i>All other questions in the section are asked. Lead PI's status defaults to "no."</i>) 		X	
<p>Contact Information:</p> <p>Institution</p> <p>Address at institution</p> <p>City</p> <p>State/Region</p> <p>Country</p> <p>ZIP Code</p> <p>Phone Number</p> <p>Fax Number</p> <p>E-mail Address</p>	X		
<p>Gender: (Select one)</p> <ul style="list-style-type: none"> • Female • Male • Not Reported 	X		
<p>Ethnicity: (Select one)</p> <ul style="list-style-type: none"> • Hispanic or Latino • Not Hispanic or Latino • Not Reported 	X		
<p>Race: (Mark one or more)</p> <ul style="list-style-type: none"> • Black or African American • American Indian or Alaska Native • Native Hawaiian or Other Pacific Islander • Asian • White • Not Reported 	X		
<p>Disability: (Select one)</p> <ul style="list-style-type: none"> • Yes (Mark "yes" if any of the following apply: <ul style="list-style-type: none"> • Deaf or serious difficulty hearing • Blind or serious difficulty seeing even when wearing glasses • Serious difficulty walking or climbing stairs • Other serious disability related to a physical, mental, or emotional condition) • No • Do not wish to provide 	X		
<p>Citizenship: (Select one)</p> <ul style="list-style-type: none"> • U. S. Citizen • Permanent Resident • Other Non-U.S. Citizen • Not Reported 	X		

<p style="text-align: center;">Common Collection Categories</p> <p>Questions</p>	<p style="writing-mode: vertical-rl; transform: rotate(180deg);">Staff and Project Participant Characteristics</p>	<p style="writing-mode: vertical-rl; transform: rotate(180deg);">Project Implementation Characteristics</p>	<p style="writing-mode: vertical-rl; transform: rotate(180deg);">Project Outputs</p>
<p>Thrust areas in which this participant participated during the current reporting period: (Mark all that apply)</p> <ul style="list-style-type: none"> • Thrust Area 1 • Thrust Area 2 • ... 		X	
<p>Faculty/Postdoc</p>	X		
<p>Name (First Name, Middle Name, Last Name)</p>	X		
<p>Did this participant leave the program in a prior reporting period, but is still associated with an accomplishment recorded this year?</p> <ul style="list-style-type: none"> • Yes (<i>No other questions in the section are asked.</i>) • No (<i>All other questions in the section are asked.</i>) 		X	
<p>Contact Information:</p> <p>Institution (Name, Type, City, State/Region)</p> <p>Academic Rank (Select one)</p> <ul style="list-style-type: none"> • Assistant Professor • Associate Professor • Instructor or Lecturer • Not Applicable • Postdoctoral Associate • Professor <p>Address at Institution</p> <p>City</p> <p>State/Region</p> <p>Country</p> <p>ZIP Code</p> <p>Phone Number</p> <p>Fax Number</p> <p>E-mail Address</p> <p>URL</p>	X		
<p>Gender: (Select one)</p> <ul style="list-style-type: none"> • Female • Male • Not Reported 	X		
<p>Ethnicity: (Select one)</p> <ul style="list-style-type: none"> • Hispanic or Latino • Not Hispanic or Latino • Not Reported 	X		

<p style="text-align: center;">Common Collection Categories</p> <p>Questions</p>	<p style="text-align: center;">Staff and Project Participant Characteristics</p>	<p style="text-align: center;">Project Implementation Characteristics</p>	<p style="text-align: center;">Project Outputs</p>
<p>Race: (Mark one or more)</p> <ul style="list-style-type: none"> • Black or African American • American Indian or Alaska Native • Native Hawaiian or Other Pacific Islander • Asian • White • Not Reported 	X		
<p>Disability: (Select one)</p> <ul style="list-style-type: none"> • Yes (Mark “yes” if any of the following apply: <ul style="list-style-type: none"> • Deaf or serious difficulty hearing • Blind or serious difficulty seeing even when wearing glasses • Serious difficulty walking or climbing stairs • Other serious disability related to a physical, mental, or emotional condition) • No • Do not wish to provide 	X		
<p>Citizenship: (Select one)</p> <ul style="list-style-type: none"> • U. S. Citizen • Permanent Resident • Other Non-U.S. Citizen • Not Reported 	X		
<p>Thrust areas in which this participant participated during the current reporting period: (Mark all that apply)</p> <ul style="list-style-type: none"> • Thrust Area 1 • Thrust Area 2 • ... 		X	
<p>Provide the total number of person-months this participant contributed to CREST during the reporting period by the source of funding.</p> <p>NSF CREST _____</p> <p>Other NSF _____</p> <p>Other Federal Government _____</p> <p>Other (please specify) _____</p>		X	
<p>Student</p>			
<p>Name (First Name, Middle Name, Last Name)</p>	X		
<p>Did this participant leave the program in a prior reporting period, but is still associated with an accomplishment recorded this year?</p> <ul style="list-style-type: none"> • Yes (<i>No other questions in the section are asked.</i>) • No (<i>All other questions in the section are asked.</i>) 		X	

<p style="text-align: center;">Common Collection Categories</p> <p>Questions</p>	<p style="writing-mode: vertical-rl; transform: rotate(180deg);">Staff and Project Participant Characteristics</p>	<p style="writing-mode: vertical-rl; transform: rotate(180deg);">Project Implementation Characteristics</p>	<p style="writing-mode: vertical-rl; transform: rotate(180deg);">Project Outputs</p>
<p>Contact Information:</p> <p>Institution (Name, Type, City, State/Region)</p> <p>Address at Institution</p> <p>City</p> <p>State/Region</p> <p>Country</p> <p>ZIP Code</p> <p>Phone Number</p> <p>Fax Number</p> <p>E-mail Address</p> <p>URL</p>	X		
<p>Gender: (Select one)</p> <ul style="list-style-type: none"> • Female • Male • Not Reported 	X		
<p>Ethnicity: (Select one)</p> <ul style="list-style-type: none"> • Hispanic or Latino • Not Hispanic or Latino • Not Reported 	X		
<p>Race: (Mark one or more)</p> <ul style="list-style-type: none"> • Black or African American • American Indian or Alaska Native • Native Hawaiian or Other Pacific Islander • Asian • White • Not Reported 	X		
<p>Disability: (Select one)</p> <ul style="list-style-type: none"> • Yes (Mark “yes” if any of the following apply: <ul style="list-style-type: none"> • Deaf or serious difficulty hearing • Blind or serious difficulty seeing even when wearing glasses • Serious difficulty walking or climbing stairs • Other serious disability related to a physical, mental, or emotional condition) • No • Do not wish to provide 	X		
<p>Citizenship: (Select one)</p> <ul style="list-style-type: none"> • Not Reported • Other Non-U.S. Citizen • Permanent Resident • U. S. Citizen 	X		
<p>Thrust areas in which this participant participated during the current reporting period: (Mark all that apply)</p> <ul style="list-style-type: none"> • Thrust Area 1 • Thrust Area 2 • ... 		X	

<p style="text-align: center;">Common Collection Categories</p> <p>Questions</p>	<p style="text-align: center;">Staff and Project Participant Characteristics</p>	<p style="text-align: center;">Project Implementation Characteristics</p>	<p style="text-align: center;">Project Outputs</p>
<p>Provide the total number of person-months this participant contributed to CREST during the reporting period by the source of funding.</p> <p>NSF CREST Other NSF Other Federal Government Other (please specify) _____</p>		X	
<p>Academic Level as of the September 1 20yy:</p> <ul style="list-style-type: none"> • Undergraduate Freshman • Undergraduate Sophomore • Undergraduate Junior • Undergraduate Senior • Undergraduate Other • Graduate Masters • Graduate Doctorate • Graduate Other • Graduated between July 1 and Sept. 1 	X		
<p>If the student received a degree during current reporting period:</p> <p>Degree Received: (Select one):</p> <ul style="list-style-type: none"> • Bachelor's • Master's • Ph.D. <p>Area of Study: (Select one)</p> <ul style="list-style-type: none"> • Agricultural Studies • Chemical and Biological Sciences • Computer and Information Sciences • Crosscutting Programs • Education • Engineering • English • Environmental Sciences/ Renewable Natural Resources • Geosciences • International • Life Sciences • Mathematics • Natural Sciences • Physical Sciences • Science Statistics • Social, Behavioral Sciences • Other <p>Title of Thesis or Dissertation</p>	X		

Common Collection Categories	Staff and Project Participant Characteristics	Project Implementation Characteristics	Project Outputs
Questions			
Which of the following kinds of financial support did this individual receive through the CREST program during the current reporting period? (Mark all that apply): <ul style="list-style-type: none"> • Tuition • Stipend(s) • Other (please specify) _____ 		X	X
Did the student receive stipends from the CREST project for at least one academic term (including summer) during the current reporting period? <ul style="list-style-type: none"> • Yes • No 		X	X
What is the student's status at the end of the current reporting period? (Mark all that apply) <ul style="list-style-type: none"> • Still in the CREST Program • Postdoctoral Position • Faculty Appointment • Research Appointment • Employment in private Industry • Employment in public Industry • Employment in K-12 Schools • Other (please specify) _____ 		X	
Provide the total number of person-months this individual contributed to CREST during the reporting period by the source of funding. NSF CREST Other NSF Other Federal Government Other (please specify) _____		X	
Other Personnel			
Name (First Name, Middle Name, Last Name)	X		
Did this participant leave the program in a prior reporting period, but is still associated with an accomplishment recorded this year? <ul style="list-style-type: none"> • Yes (No other questions in the section are asked.) • No (All other questions in the section are asked.) 		X	
Contact Information: Institution (Name, Type, City, State/Region) Phone Fax E-mail	X		
This individual fulfills the definition of a CREST participant (i.e., any individual who received the equivalent of at least one month's salary from the CREST project during the current reporting period). <ul style="list-style-type: none"> • Yes • No 		X	

<p style="text-align: center;">Common Collection Categories</p> <p>Questions</p>	<p style="writing-mode: vertical-rl; transform: rotate(180deg);">Staff and Project Participant Characteristics</p>	<p style="writing-mode: vertical-rl; transform: rotate(180deg);">Project Implementation Characteristics</p>	<p style="writing-mode: vertical-rl; transform: rotate(180deg);">Project Outputs</p>
Gender: (Select one) <ul style="list-style-type: none"> • Female • Male • Not Reported 	X		
Ethnicity: (Select one) <ul style="list-style-type: none"> • Hispanic or Latino • Not Hispanic or Latino • Not Reported 	X		
Race: (Mark one or more) <ul style="list-style-type: none"> • Black or African American • American Indian or Alaska Native • Native Hawaiian or Other Pacific Islander • Asian • White • Not Reported 	X		
Disability: (Select one) <ul style="list-style-type: none"> • Yes (Mark “yes” if any of the following apply: <ul style="list-style-type: none"> • Deaf or serious difficulty hearing • Blind or serious difficulty seeing even when wearing glasses • Serious difficulty walking or climbing stairs • Other serious disability related to a physical, mental, or emotional condition) • No • Do not wish to provide 	X		
Citizenship (Select one): <ul style="list-style-type: none"> • Not Reported • Other Non-U.S. Citizen • Permanent Resident • U. S. Citizen 	X		
Thrust areas in which this participant participated during the current reporting period: (Mark all that apply) <ul style="list-style-type: none"> • Thrust Area 1 • Thrust Area 2 • ... 		X	
<p>Contributor</p>			
Name (First Name, Middle Name, Last Name)	X		
Institution (Name, Type, City, State/Region)	X		
<p>4. Proposals/Awards</p>			
Status <ul style="list-style-type: none"> • Proposal • Award 			X
Title of Proposal/Award			X

<p style="text-align: center;">Common Collection Categories</p> <p>Questions</p>	<p style="text-align: center;">Staff and Project Participant Characteristics</p>	<p style="text-align: center;">Project Implementation Characteristics</p>	<p style="text-align: center;">Project Outputs</p>
Thrust Area (Select one) <ul style="list-style-type: none"> • Thrust Area 1 • Thrust Area 2 • ... 		X	
Funding Source Type: <ul style="list-style-type: none"> • Federal • Foundation • Industry • State • University • Other 			X
Funding Source Name			X
Was this an NSF funding source? (Select one) <ul style="list-style-type: none"> • Yes • No 			X
Type of Award: (Select one) <ul style="list-style-type: none"> • Education • Research • Other 			X
Center Award Amount (for Awards only)			X
Grant Award Amount (for Awards only)			X
Key Participants: <ul style="list-style-type: none"> Primary Participant <ul style="list-style-type: none"> Name (First Name, Middle Name, Last Name) Institution Participant/Contributor 2 <ul style="list-style-type: none"> Name (First Name, Middle Name, Last Name) Institution Participant/Contributor 3 ... 	X		
Description of How CREST Contributed to This Accomplishment			X
5. Presentations			
Presentation Title			X
Thrust Area (Select one) <ul style="list-style-type: none"> • Thrust 1 • Thrust 2 • ... 		X	

<p style="text-align: center;">Common Collection Categories</p> <p>Questions</p>	<p style="text-align: center;">Staff and Project Participant Characteristics</p>	<p style="text-align: center;">Project Implementation Characteristics</p>	<p style="text-align: center;">Project Outputs</p>
Presentation Location Institution (Name, Type, City, State/Region) OR Conference name and location: Conference Name City State			X
Approximate Audience Size			X
Presentation Date			X
Key Participants: Primary Participant Name (First Name, Middle Name, Last Name) Institution Participant/Contributor 2 Name (First Name, Middle Name, Last Name) Institution Participant/Contributor 3 ...		X	
Description of How CREST Contributed to This Presentation			X
6. Publications			
Title			X
Thrust Area (Select one) <ul style="list-style-type: none"> • Thrust Area 1 • Thrust Area 2 • ... 		X	
Publication Name			X
Publication Type: (Select one) <ul style="list-style-type: none"> • Article in Refereed Journal • Book Chapter or Textbook • Article in Public Proceedings 			X
Status of Publication: (Select one) <ul style="list-style-type: none"> • Accepted, Awaiting Publication • Published (Volume, Year) • Submitted, Under Review • Other (please specify) _____ 			X

<p style="text-align: center;">Common Collection Categories</p> <p>Questions</p>	<p style="text-align: center;">Staff and Project Participant Characteristics</p>	<p style="text-align: center;">Project Implementation Characteristics</p>	<p style="text-align: center;">Project Outputs</p>
Citation: Page # URL Other Citation			X
Key Participants: Primary Participant Name (First Name, Middle Name, Last Name) Institution Participant/Contributor 2 Name (First Name, Middle Name, Last Name) Institution Participant/Contributor 3 ...	X		
Description of How CREST Contributed to This Publication			X
7. Collaborative Projects			
Collaborative Project Title			X
Thrust Area (Select one) <ul style="list-style-type: none"> • Thrust Area 1 • Thrust Area 2 • ... 		X	
Key Participants: Primary Participant Name (First Name, Middle Name, Last Name) Institution Participant/Contributor 2 Name (First Name, Middle Name, Last Name) Institution Participant/Contributor 3 ...	X		
Description of How CREST Contributed to This Collaborative Project			X

**Common
Collection
Categories**

Questions

**Staff and Project
Participant
Characteristics**

**Project
Implementation
Characteristics**

Project Outputs

Collaborative Partner(s):

Institution 1

(Name, Type, City, State/Region)

Funding Source: (Mark all that apply)

- Federal
- Industry
- State
- University
- Other (please specify) _____

NSF Programs Related to This Partner:

(Mark all that apply)

(for institution type=University only)

<i>NSF Program</i>	<i>Center Name</i>
Centers for Learning and Teaching (CLT)	
Centers for Ocean Science Education Excellence (COSEE)	
Chemical Bonding Centers (CBC)	
Engineering Research Centers (ERC)	
Industry/University Cooperative Research Centers Program (I/UCRC)	
Materials Research Science and Engineering Centers (MRSEC)	
Science of Learning Centers (SLC)	
Science and Technology Centers (STC)	
Partnerships for Research and Education in Materials (PREM)	
Integrative Graduate Education Traineeship Program (IGERT)	
Alliances for Graduate Education and the Professoriate (AGEP)	

X

Institution 2

...

Did the collaboration provide research for Undergraduates?

- Yes
- No

X

Research for Graduates?

- Yes
- No

X

<p style="text-align: center;">Common Collection Categories</p> <p>Questions</p>	<p style="writing-mode: vertical-rl; transform: rotate(180deg);">Staff and Project Participant Characteristics</p>	<p style="writing-mode: vertical-rl; transform: rotate(180deg);">Project Implementation Characteristics</p>	<p style="writing-mode: vertical-rl; transform: rotate(180deg);">Project Outputs</p>
Research for Postdocs? <ul style="list-style-type: none"> • Yes • No 			X
Is this collaboration International? <ul style="list-style-type: none"> • Yes • No If yes, was this collaboration planned as a part of your proposal or developed later during the award period? (select one) <ul style="list-style-type: none"> • Proposal • Award 		X	
<p>8. Patents</p>			
Patent Title			X
Thrust Area: (Select one) <ul style="list-style-type: none"> • Thrust Area 1 • Thrust Area 2 • ... 		X	
Year Submitted			X
Application Number			X
Allowed: (Select one) <ul style="list-style-type: none"> • Yes • No 			X
Patent Number			X
Key Participants: <p>Primary Participant Name (First Name, Middle Name, Last Name) Institution</p> <p>Participant/Contributor 2 Name (First Name, Middle Name, Last Name) Institution</p> <p>Participant/Contributor 3 ...</p>	X		
Description of How CREST Contributed to This Collaborative Project			X
<p>9. Activities</p>			
Activity Title			X
Thrust Area: (Select one) <ul style="list-style-type: none"> • Thrust Area 1 • Thrust Area 2 • ... 		X	

<p style="text-align: center;">Common Collection Categories</p> <p>Questions</p>	<p style="writing-mode: vertical-rl; transform: rotate(180deg);">Staff and Project Participant Characteristics</p>	<p style="writing-mode: vertical-rl; transform: rotate(180deg);">Project Implementation Characteristics</p>	<p style="writing-mode: vertical-rl; transform: rotate(180deg);">Project Outputs</p>
<p>Activity Type: (Select one)</p> <ul style="list-style-type: none"> • Research Activities/Findings • Education and HR Activities/Accomplishments • Attracting/Attaining/Retaining Students • Integrating Education and Research • Working With K—12 Students • Facilitating the Transfer of Knowledge • Developing or Purchasing Equipment/Facilities 			X
Activity Start Date			X
Activity End Date			X
<p>Institutions:</p> <p style="padding-left: 20px;">Institution 1 (Name, Type, City, State/Region)</p> <p style="padding-left: 20px;">Institution 2</p> <p>...</p>	X		
<p>Key Participants:</p> <p style="padding-left: 20px;">Primary Participant Name (First Name, Middle Name, Last Name) Institution</p> <p style="padding-left: 20px;">Participant/Contributor 2 Name (First Name, Middle Name, Last Name) Institution</p> <p style="padding-left: 20px;">Participant/Contributor 3</p> <p>...</p>	X		
<p>Highlights of outstanding accomplishments: (If this is a continuation of an activity from last year, please explain the changes in the direction or level of activity from the previous year.)</p>			X
Impact of Activity on Faculty, Students and/or Scientific Community			X
Description of How CREST Contributed to This Activity			X
<p>10. Conferences Organized</p>			X
Conference Title			X
Conference Topic			X
<p>Thrust Area: (Select one)</p> <ul style="list-style-type: none"> • Thrust Area 1 • Thrust Area 2 • ... 		X	
Conference Start Date			X
Conference End Date			X

<p style="text-align: center;">Common Collection Categories</p> <p>Questions</p>	<p style="text-align: center;">Staff and Project Participant Characteristics</p>	<p style="text-align: center;">Project Implementation Characteristics</p>	<p style="text-align: center;">Project Outputs</p>
<p>Conference Location: Institution (Name, Type, City, State/Region)</p> <p>OR</p> <p>Conference name and location: Conference Name City State</p>		X	
Invited Speakers	X		
Undergraduate Participant Count			X
Graduate Participant Count			X
Postdoc Participant Count			X
Faculty Participant Count			X
Other Sponsoring Organization(s)	X		
Conference URL			X
<p>Key Participants:</p> <p>Primary Participant Name (First Name, Middle Name, Last Name) Institution</p> <p>Participant/Contributor 2 Name (First Name, Middle Name, Last Name) Institution</p> <p>Participant/Contributor 3 ...</p>	X		
Description of How CREST Contributed to This Conference			X
11. Functional Budget			

**Common
Collection
Categories**

Questions

Budget data per budget source (including thrusts and general CREST Sources):

<i>Funds Allocated</i>	<i>Source</i>								
	<i>NSF CREST</i>	<i>Other NSF</i>	<i>Other</i>	<i>State</i>	<i>Local</i>	<i>Industry</i>	<i>University</i>	<i>Other</i>	<i>Total</i>
Thrust 1									
Thrust 2									
...									
Education and Outreach Thrust									
Crest Administration									
Education Coordinator									
Outreach and Knowledge Transfer Coordinator									
Total									

**Participant
Characteristics**

**Project
Implementation
Characteristics**

Project Outputs

X

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

The estimated average number of annual respondents is 37 (23 CREST center PIs/program coordinators and 14 HBCU-RISE award PIs/program coordinators), with an estimated annual response burden of 1,374 hours. The Web-based data collection is an annual activity of the CREST program. The respondents are either PIs or program coordinators. One PI or program coordinator per award completes the questionnaire. The estimated annual hour burden per respondent was determined using the burden information reported by respondents from the last three collection cycles.

The burden estimate is outlined below:

Respondent Type	Estimated Average Annual No. of Respondents	Estimated Average Annual Burden Hours Per Respondent	Estimated Annual Burden Hour Total
CREST center PIs/program coordinators	23	50	1,150
HBCU-RISE award PIs/program coordinators	14	16	224
Total	37	37.14	1,374

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

There is only one form. This form accounts for the entire annual response burden of 1,374 hours. The annual burden by form was calculated as follows:

Form Type	Respondent Type	No. of Respondents	Burden Hours Per Respondent	Total Burden Hours
CREST data collection form	PIs/program coordinators	37	37.14	1,374
Total		37		1,374

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

The overall annualized cost to the respondents is estimated to be \$56,341. The following table shows the annualized estimate of cost to PI/program coordinator respondents, who are generally university professors. This estimated hourly rate is based on a report from the American Association of University Professors, “Annual Report on the Economic Status of the Profession, 2011-12,” *Academe*, March–April 2012, Survey Report Table 4. According to this [report](#), the average salary of an associate professor across all types of doctoral-granting institutions (public, private-independent, religiously affiliated) was \$86,319. When divided by the number of standard annual work hours (2,080), this calculates to approximately \$41 per hour.

Respondent Type	No. of Respondents	Burden Hours Per Respondent	Average Hourly Rate	Estimated Annual Cost
PIs/program coordinators	37	37.14	\$41	\$56,341
Total	37			\$56,341

CREST: Estimates of Costs to the Federal Government

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

Operational Activities	Cost Over Three Years
System Development (includes initial development of the database and Web-based application, and later changes requested by the program, e.g., increased reporting tools, additional validations)	\$357,166
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)	\$178,583
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 HRD), and Followup Activities (e.g., providing data to other consultants)	\$134,157
Three-Year Total for All Operational Activities	\$669,906

The annualized cost was computed as one-third of the total three-year costs; thus, the annualized cost to NSF for the CREST data collection is \$223,302.

CREST: Questions

1. Center Information
Center Name
Street Address 1 Street Address 2 City State ZIP Code
Phone Number
Fax Number
E-mail Address
URL
Undergraduate Enrollment in CREST Program
Graduate Enrollment in CREST Program
2. Institutions
Institution Name
Type of Institution (Select one) <ul style="list-style-type: none"> • Federal Government • Industry • Local Government • Non-Profit • State Government • University or College • Other
City State/Region Country
3. Participant Information
Principal Investigator (PI)/ Co-Principal Investigator (Co-PI)
Name (First Name, Middle Name, Last Name)
Did this participant leave the program in a prior reporting period, but is still associated with an accomplishment recorded this year? <ul style="list-style-type: none"> • Yes (<i>No other questions in the section are asked.</i>) • No (<i>All other questions in the section are asked. Lead PI's status defaults to "no."</i>)
Contact Information: <ul style="list-style-type: none"> Institution Address at institution City State/Region Country ZIP Code Phone Number Fax Number E-mail Address

<p>Gender: (Select one)</p> <ul style="list-style-type: none"> • Female • Male • Not Reported
<p>Ethnicity: (Select one)</p> <ul style="list-style-type: none"> • Hispanic or Latino • Not Hispanic or Latino • Not Reported
<p>Race: (Mark one or more)</p> <ul style="list-style-type: none"> • Black or African American • American Indian or Alaska Native • Native Hawaiian or Other Pacific Islander • Asian • White • Not Reported
<p>Disability: (Select one)</p> <ul style="list-style-type: none"> • Yes (Mark “yes” if any of the following apply: <ul style="list-style-type: none"> • Deaf or serious difficulty hearing • Blind or serious difficulty seeing even when wearing glasses • Serious difficulty walking or climbing stairs • Other serious disability related to a physical, mental, or emotional condition) • No • Do not wish to provide
<p>Citizenship: (Select one)</p> <ul style="list-style-type: none"> • U. S. Citizen • Permanent Resident • Other Non-U.S. Citizen • Not Reported
<p>Thrust areas in which this participant participated during the current reporting period: (Mark all that apply)</p> <ul style="list-style-type: none"> • Thrust Area 1 • Thrust Area 2 • ...
<p>Faculty/Postdoc</p>
<p>Name (First Name, Middle Name, Last Name)</p>
<p>Did this participant leave the program in a prior reporting period, but is still associated with an accomplishment recorded this year?</p> <ul style="list-style-type: none"> • Yes (<i>No other questions in the section are asked.</i>) • No (<i>All other questions in the section are asked.</i>)

Contact Information:

Institution

(Name, Type, City, State/Region)

Academic Rank (Select one)

- Assistant Professor
- Associate Professor
- Instructor or Lecturer
- Not Applicable
- Postdoctoral Associate
- Professor

Address at Institution

City

State/Region

Country

ZIP Code

Phone Number

Fax Number

E-mail Address

URL

Gender: (Select one)

- Female
- Male
- Not Reported

Ethnicity: (Select one)

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

Race: (Mark one or more)

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

Disability: (Select one)

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

Citizenship: (Select one)

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

Thrust areas in which this participant participated during the current reporting period: (Mark all that apply)

- Thrust Area 1
- Thrust Area 2
- ...

<p>Provide the total number of person-months this participant contributed to CREST during the reporting period by the source of funding.</p> <p>NSF CREST</p> <p>Other NSF</p> <p>Other Federal Government</p> <p>Other (please specify) _____</p>
<p>Student</p>
<p>Name (First Name, Middle Name, Last Name)</p>
<p>Did this participant leave the program in a prior reporting period, but is still associated with an accomplishment recorded this year?</p> <ul style="list-style-type: none"> • Yes (<i>No other questions in the section are asked.</i>) • No (<i>All other questions in the section are asked.</i>)
<p>Contact Information:</p> <p>Institution (Name, Type, City, State/Region)</p> <p>Address at Institution</p> <p>City</p> <p>State/Region</p> <p>Country</p> <p>ZIP Code</p> <p>Phone Number</p> <p>Fax Number</p> <p>E-mail Address</p> <p>URL</p>
<p>Gender: (Select one)</p> <ul style="list-style-type: none"> • Female • Male • Not Reported
<p>Ethnicity: (Select one)</p> <ul style="list-style-type: none"> • Hispanic or Latino • Not Hispanic or Latino • Not Reported
<p>Race: (Mark one or more)</p> <ul style="list-style-type: none"> • Black or African American • American Indian or Alaska Native • Native Hawaiian or Other Pacific Islander • Asian • White • Not Reported
<p>Disability: (Select one)</p> <ul style="list-style-type: none"> • Yes (Mark "yes" if any of the following apply: <ul style="list-style-type: none"> • Deaf or serious difficulty hearing • Blind or serious difficulty seeing even when wearing glasses • Serious difficulty walking or climbing stairs • Other serious disability related to a physical, mental, or emotional condition) • No • Do not wish to provide

<p>Citizenship: (Select one)</p> <ul style="list-style-type: none"> • Not Reported • Other Non-U.S. Citizen • Permanent Resident • U. S. Citizen
<p>Thrust areas in which this participant participated during the current reporting period: (Mark all that apply)</p> <ul style="list-style-type: none"> • Thrust Area 1 • Thrust Area 2 • ...
<p>Provide the total number of person-months this participant contributed to CREST during the reporting period by the source of funding.</p> <p>NSF CREST _____</p> <p>Other NSF _____</p> <p>Other Federal Government _____</p> <p>Other (please specify) _____</p>
<p>Academic Level as of the September 1 20yy:</p> <ul style="list-style-type: none"> • Undergraduate Freshman • Undergraduate Sophomore • Undergraduate Junior • Undergraduate Senior • Undergraduate Other • Graduate Masters • Graduate Doctorate • Graduate Other • Graduated between July 1 and Sept. 1
<p>If the student received a degree during current reporting period:</p> <p>Degree Received: (Select one):</p> <ul style="list-style-type: none"> • Bachelor's • Master's • Ph.D. <p>Area of Study: (Select one)</p> <ul style="list-style-type: none"> • Agricultural Studies • Chemical and Biological Sciences • Computer and Information Sciences • Crosscutting Programs • Education • Engineering • English • Environmental Sciences/ Renewable Natural Resources • Geosciences • International • Life Sciences • Mathematics • Natural Sciences • Physical Sciences • Science Statistics • Social, Behavioral Sciences • Other <p>Title of Thesis or Dissertation _____</p>

<p>Which of the following kinds of financial support did this individual receive through the CREST program during the current reporting period? (Mark all that apply):</p> <ul style="list-style-type: none"> • Tuition • Stipend(s) • Other (please specify) _____
<p>Did the student receive stipends from the CREST project for at least one academic term (including summer) during the current reporting period?</p> <ul style="list-style-type: none"> • Yes • No
<p>What is the student's status at the end of the current reporting period? (Mark all that apply)</p> <ul style="list-style-type: none"> • Still in the CREST Program • Postdoctoral Position • Faculty Appointment • Research Appointment • Employment in private Industry • Employment in public Industry • Employment in K-12 Schools • Other (please specify) _____
<p>Provide the total number of person-months this individual contributed to CREST during the reporting period by the source of funding.</p> <p>NSF CREST _____</p> <p>Other NSF _____</p> <p>Other Federal Government _____</p> <p>Other (please specify) _____</p>
<p>Other Personnel</p>
<p>Name (First Name, Middle Name, Last Name) _____</p>
<p>Did this participant leave the program in a prior reporting period, but is still associated with an accomplishment recorded this year?</p> <ul style="list-style-type: none"> • Yes (<i>No other questions in the section are asked.</i>) • No (<i>All other questions in the section are asked.</i>)
<p>Contact Information:</p> <p>Institution (Name, Type, City, State/Region) _____</p> <p>Phone _____</p> <p>Fax _____</p> <p>E-mail _____</p>
<p>This individual fulfills the definition of a CREST participant (i.e., any individual who received the equivalent of at least one month's salary from the CREST project during the current reporting period).</p> <ul style="list-style-type: none"> • Yes • No
<p>Gender: (Select one)</p> <ul style="list-style-type: none"> • Female • Male • Not Reported
<p>Ethnicity: (Select one)</p> <ul style="list-style-type: none"> • Hispanic or Latino • Not Hispanic or Latino • Not Reported

<p>Race: (Mark one or more)</p> <ul style="list-style-type: none"> • Black or African American • American Indian or Alaska Native • Native Hawaiian or Other Pacific Islander • Asian • White • Not Reported
<p>Disability: (Select one)</p> <ul style="list-style-type: none"> • Yes (Mark “yes” if any of the following apply: <ul style="list-style-type: none"> • Deaf or serious difficulty hearing • Blind or serious difficulty seeing even when wearing glasses • Serious difficulty walking or climbing stairs • Other serious disability related to a physical, mental, or emotional condition) • No • Do not wish to provide
<p>Citizenship (Select one):</p> <ul style="list-style-type: none"> • Not Reported • Other Non-U.S. Citizen • Permanent Resident • U. S. Citizen
<p>Thrust areas in which this participant participated during the current reporting period: (Mark all that apply)</p> <ul style="list-style-type: none"> • Thrust Area 1 • Thrust Area 2 • ...
<p>Contributor</p>
<p>Name (First Name, Middle Name, Last Name)</p>
<p>Institution (Name, Type, City, State/Region)</p>
<p>4. Proposals/Awards</p>
<p>Status</p> <ul style="list-style-type: none"> • Proposal • Award
<p>Title of Proposal/Award</p>
<p>Thrust Area (Select one)</p> <ul style="list-style-type: none"> • Thrust Area 1 • Thrust Area 2 • ...
<p>Funding Source Type:</p> <ul style="list-style-type: none"> • Federal • Foundation • Industry • State • University • Other
<p>Funding Source Name</p>
<p>Was this an NSF funding source? (Select one)</p> <ul style="list-style-type: none"> • Yes • No

Type of Award: (Select one) <ul style="list-style-type: none"> • Education • Research • Other
Center Award Amount (for Awards only)
Grant Award Amount (for Awards only)
Key Participants: <ul style="list-style-type: none"> Primary Participant <ul style="list-style-type: none"> Name (First Name, Middle Name, Last Name) Institution Participant/Contributor 2 <ul style="list-style-type: none"> Name (First Name, Middle Name, Last Name) Institution Participant/Contributor 3 ...
Description of How CREST Contributed to This Accomplishment
5. Presentations
Presentation Title
Thrust Area (Select one) <ul style="list-style-type: none"> • Thrust 1 • Thrust 2 • ...
Presentation Location <ul style="list-style-type: none"> Institution (Name, Type, City, State/Region) <p>OR</p> <ul style="list-style-type: none"> Conference name and location: <ul style="list-style-type: none"> Conference Name City State
Approximate Audience Size
Presentation Date
Key Participants: <ul style="list-style-type: none"> Primary Participant <ul style="list-style-type: none"> Name (First Name, Middle Name, Last Name) Institution Participant/Contributor 2 <ul style="list-style-type: none"> Name (First Name, Middle Name, Last Name) Institution Participant/Contributor 3 ...
Description of How CREST Contributed to This Presentation
6. Publications
Title

<p>Thrust Area (Select one)</p> <ul style="list-style-type: none"> • Thrust Area 1 • Thrust Area 2 • ...
<p>Publication Name</p>
<p>Publication Type: (Select one)</p> <ul style="list-style-type: none"> • Article in Refereed Journal • Book Chapter or Textbook • Article in Public Proceedings
<p>Status of Publication: (Select one)</p> <ul style="list-style-type: none"> • Accepted, Awaiting Publication • Published (Volume, Year) • Submitted, Under Review • Other (please specify) _____
<p>Citation:</p> <p>Page #</p> <p>URL</p> <p>Other Citation</p>
<p>Key Participants:</p> <p>Primary Participant</p> <p style="padding-left: 20px;">Name (First Name, Middle Name, Last Name)</p> <p style="padding-left: 20px;">Institution</p> <p>Participant/Contributor 2</p> <p style="padding-left: 20px;">Name (First Name, Middle Name, Last Name)</p> <p style="padding-left: 20px;">Institution</p> <p>Participant/Contributor 3</p> <p>...</p>
<p>Description of How CREST Contributed to This Publication</p>
<p>7. Collaborative Projects</p>
<p>Collaborative Project Title</p>
<p>Thrust Area (Select one)</p> <ul style="list-style-type: none"> • Thrust Area 1 • Thrust Area 2 • ...
<p>Key Participants:</p> <p>Primary Participant</p> <p style="padding-left: 20px;">Name (First Name, Middle Name, Last Name)</p> <p style="padding-left: 20px;">Institution</p> <p>Participant/Contributor 2</p> <p style="padding-left: 20px;">Name (First Name, Middle Name, Last Name)</p> <p style="padding-left: 20px;">Institution</p> <p>Participant/Contributor 3</p> <p>...</p>
<p>Description of How CREST Contributed to This Collaborative Project</p>

Collaborative Partner(s):

Institution 1

(Name, Type, City, State/Region)

Funding Source: (Mark all that apply)

- Federal
- Industry
- State
- University
- Other (please specify) _____

NSF Programs Related to This Partner:

(Mark all that apply)

(for institution type=University only)

<i>NSF Program</i>	<i>Center Name</i>
Centers for Learning and Teaching (CLT)	
Centers for Ocean Science Education Excellence (COSEE)	
Chemical Bonding Centers (CBC)	
Engineering Research Centers (ERC)	
Industry/University Cooperative Research Centers Program (IUCRC)	
Materials Research Science and Engineering Centers (MRSEC)	
Science of Learning Centers (SLC)	
Science and Technology Centers (STC)	
Partnerships for Research and Education in Materials (PREM)	
Integrative Graduate Education Traineeship Program (IGERT)	
Alliances for Graduate Education and the Professoriate (AGEP)	

Institution 2

...

Did the collaboration provide research for Undergraduates?

- Yes
- No

Research for Graduates?

- Yes
- No

Research for Postdocs?

- Yes
- No

Is this collaboration International?

- Yes
- No

If yes, was this collaboration planned as a part of your proposal or developed later during the award period? (select one)

- Proposal
- Award

8. Patents

Patent Title

Thrust Area: (Select one)

- Thrust Area 1
- Thrust Area 2
- ...

Year Submitted

Application Number

Allowed: (Select one)

- Yes
- No

Patent Number

Key Participants:

Primary Participant
 Name (First Name, Middle Name, Last Name)
 Institution

Participant/Contributor 2
 Name (First Name, Middle Name, Last Name)
 Institution

Participant/Contributor 3
 ...

Description of How CREST Contributed to This Collaborative Project

9. Activities

Activity Title

Thrust Area: (Select one)

- Thrust Area 1
- Thrust Area 2
- ...

Activity Type: (Select one)

- Research Activities/Findings
- Education and HR Activities/Accomplishments
- Attracting/Attaining/Retaining Students
- Integrating Education and Research
- Working With K—12 Students
- Facilitating the Transfer of Knowledge
- Developing or Purchasing Equipment/Facilities

Activity Start Date

Activity End Date

<p>Institutions:</p> <p>Institution 1 (Name, Type, City, State/Region)</p> <p>Institution 2</p> <p>...</p>
<p>Key Participants:</p> <p>Primary Participant Name (First Name, Middle Name, Last Name) Institution</p> <p>Participant/Contributor 2 Name (First Name, Middle Name, Last Name) Institution</p> <p>Participant/Contributor 3</p> <p>...</p>
<p>Highlights of outstanding accomplishments: (If this is a continuation of an activity from last year, please explain the changes in the direction or level of activity from the previous year.)</p>
<p>Impact of Activity on Faculty, Students and/or Scientific Community</p>
<p>Description of How CREST Contributed to This Activity</p>
<p>10. Conferences Organized</p>
<p>Conference Title</p>
<p>Conference Topic</p>
<p>Thrust Area: (Select one)</p> <ul style="list-style-type: none"> • Thrust Area 1 • Thrust Area 2 • ...
<p>Conference Start Date</p>
<p>Conference End Date</p>
<p>Conference Location: Institution (Name, Type, City, State/Region)</p> <p>OR</p> <p>Conference name and location: Conference Name City State</p>
<p>Invited Speakers</p>
<p>Undergraduate Participant Count</p>
<p>Graduate Participant Count</p>
<p>Postdoc Participant Count</p>
<p>Faculty Participant Count</p>
<p>Other Sponsoring Organization(s)</p>
<p>Conference URL</p>

Key Participants:

Primary Participant

Name (First Name, Middle Name, Last Name)

Institution

Participant/Contributor 2

Name (First Name, Middle Name, Last Name)

Institution

Participant/Contributor 3

...

Description of How CREST Contributed to This Conference

11. Functional Budget

Budget data per budget source (including thrusts and general CREST Sources):

<i>Funds Allocated</i>	<i>Source</i>								
	<i>NSF CREST</i>	<i>Other NSF</i>	<i>Other</i>	<i>State</i>	<i>Local</i>	<i>Industry</i>	<i>University</i>	<i>Other</i>	<i>Total</i>
Thrust 1									
Thrust 2									
...									
Education and Outreach Thrust									
Crest Administration									
Education Coordinator									
Outreach and Knowledge Transfer Coordinator									
Total									