# **Attachment A1**

Centers of Research Excellence in Science and Technology (CREST) and Historically Black Colleges and Universities Research Infrastructure for Science and Engineering (HBCU-RISE)

Monitoring System

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#### **CREST/HBCU-RISE: Crosswalk**

Common	<b></b>	<b>—</b> 0	· ·
Collection	ojec nt	tion tics <sup>2</sup>	uts
Categories	off and Proje Participant	ect inta	)utp
	and	Project lementa racteris	ct (
	Staff and Project Participant	Project Implementation Characteristics <sup>2</sup>	Project Outputs <sup>3</sup>
Questions	S		ь
1. Center/Award Information			
Center/Award Name		X	
Street Address 1			
Street Address 2			
City	X		
State			
ZIP Code			
Phone Number	X		
Fax Number	X		
E-mail Address	X		
URL	X		
Number of undergraduate students supported by the CREST center/HBCU-		v	v
RISE award during the current reporting period		X	X
Number of graduate students supported by the CREST center/HBCU-RISE		v	v
award during the current reporting period		X	X
2. Institutions			
Institution Name	X		
Type of Institution (Select one)			
Federal Government			
Industry     Local Government			
Non-Profit	X		
• Other			
State Government			
University or College			
City			
State/Region	X		
Country			
3. Participants			
Principal Investigator (PI)/Co-Principal Investigator (Co-PI)			
Name (First Name, Middle Name, Last Name)	X		

<sup>&</sup>lt;sup>1</sup> Elements of these characteristics include name, address, date of birth, gender, ethnicity, race, disability status, class, major, grade point average, and project role.

<sup>&</sup>lt;sup>2</sup> Elements of these characteristics include sources and amount of funds, fellowships, scholarships, traineeships, partnerships, training, and research methods.

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

educational materials.

Common Collection Categories Questions	Staff and Project Participant	Project Implementation Characteristics	Project Outputs
Cited-Only Information Is this person a former participant who is listed only because he or she is cited on a proposal, award, presentation, collaborative project, patent, activity, and/or conference that is listed for the current reporting period?  • Yes (No other questions in the section are asked.)  • No (All other questions in the section are asked. Lead PI's status defaults to No.)		X	
Contact Information:     Institution (Name, Type, City, State/Region, Country)     Address at Institution     City     State/Region     Country     ZIP Code     Phone Number     Fax Number     E-mail Address	X		
Demographic Information  Gender: (Select one)  Female  Male  Not Reported	X		
Ethnicity: (Select one)  • Hispanic or Latino • Not Hispanic or Latino • Not Reported	X		
Race: (Mark one or more)  Black or African American  American Indian or Alaska Native  Native Hawaiian or Other Pacific Islander  Asian  White  Not Reported	X		
Disability Status: (Select one)  • Yes (Select Yes if any of the following apply:  • Deaf or serious difficulty hearing  • Blind or serious difficulty seeing even when wearing glasses  • Serious difficulty walking or climbing stairs  • Other serious disability related to a physical, mental, or emotional condition)  • No  • Do Not Wish to Provide	X		

Common		_	
Collection	jec nt Hine	tion	uts
Categories	Pro pan	ect ntat	ntp.
	Staff and Project Participant	Project Implementation Characteristics	Project Outputs
	off a Par	P iple har	oje
Questions	Sta		Pr
Citizenship: (Select one)			
• U. S. Citizen			
Permanent Resident	X		
Other Non-U.S. Citizen			
Not Reported  The A			
Thrust Areas			
Mark one or more thrust areas in which this participant participated during			
the current reporting period:		X	
Education and Outreach     Throat Area 1		Λ	
<ul><li>Thrust Area 1</li><li>Thrust Area 2</li></ul>			
Tillust Area 2			
Faculty/Postdoc			
Name (First Name, Middle Name, Last Name)	X		
Cited-Only Information			
Is this person a former participant who is listed only because he or she is			
cited on a proposal, award, presentation, collaborative project, patent,		v	
activity, and/or conference that is listed for the current reporting period?		X	
Yes (No other questions in the section are asked.)			
No (All other questions in the section are asked.)			
Contact Information:			
Institution (Name, Type, City, State/Region, Country)			
Academic Rank: (Select one)			
• Professor			
Associate Professor			
Assistant Professor			
Instructor or Lecturer     Destdestoral Associate			
<ul><li>Postdoctoral Associate</li><li>Not Applicable</li></ul>			
Address at Institution	X		
City	71		
State/Region			
Country			
ZIP Code			
Phone Number			
Fax Number			
E-mail Address			
URL David graphic Information			
Demographic Information			
Gender: (Select one)			
• Female	X		
<ul><li>Male</li><li>Not Reported</li></ul>			
- Not Reported			1

Common Collection Categories Questions	Staff and Project Participant	Project Implementation Characteristics	Project Outputs
Ethnicity: (Select one)  • Hispanic or Latino  • Not Hispanic or Latino  • Not Reported	X		
Race: (Mark one or more)  Black or African American  American Indian or Alaska Native  Native Hawaiian or Other Pacific Islander  Asian  White  Not Reported	X		
Disability Status: (Select one)  • Yes (Select Yes if any of the following apply:  • Deaf or serious difficulty hearing  • Blind or serious difficulty seeing even when wearing glasses  • Serious difficulty walking or climbing stairs  • Other serious disability related to a physical, mental, or emotional condition)  • No  • Do Not Wish to Provide	X		
Citizenship: (Select one)  U. S. Citizen Permanent Resident Other Non-U.S. Citizen	X		
<ul> <li>Not Reported</li> <li>Thrust Areas</li> <li>Mark one or more thrust areas in which this participant participated during the current reporting period: <ul> <li>Education and Outreach</li> <li>Thrust Area 1</li> <li>Thrust Area 2</li> <li></li> <li>N/A</li> </ul> </li> </ul>		X	
Support Provide the number of months of direct or indirect support this participant received from the CREST center/HBCU-RISE award during the current reporting period.		X	
Student			
Name (First Name, Middle Name, Last Name)	X		
Cited-Only Information Is this person a former participant who is listed only because he or she is cited on a proposal, award, presentation, collaborative project, patent, activity, and/or conference that is listed for the current reporting period?  • Yes (No other questions in the section are asked.) • No (All other questions in the section are asked.)		X	

Common	ct c	<b>=</b> %	S
Collection	ojee nt	rtio itics	but
Categories	Staff and Project Participant	Project Implementation Characteristics	Project Outputs
Questions	St	II O	Ь
Contact Information:			
Institution (Name, Type, City, State/Region, Country)			
Address at Institution			
City			
State/Region			
Country	X		
ZIP Code			
Phone Number			
Fax Number			
E-mail Address			
URL			
Demographic Information			
Gender: (Select one)			
• Female	37		
• Male	X		
Not Reported			
Ethnicity: (Select one)			
Hispanic or Latino	X		
Not Hispanic or Latino	Λ		
Not Reported			
Race: (Mark one or more)			
Black or African American			
<ul> <li>American Indian or Alaska Native</li> <li>Native Hawaiian or Other Pacific Islander</li> </ul>	X		
Asian	Λ		
• White			
Not Reported			
Disability Status: (Select one)			
Yes (Select Yes if any of the following apply:			
Deaf or serious difficulty hearing			
Blind or serious difficulty seeing even when wearing glasses	X		
<ul> <li>Serious difficulty walking or climbing stairs</li> <li>Other serious disability related to a physical, mental, or emotional condition)</li> </ul>			
Other serious disability related to a physical, mental, or emotional condition)     No			
Do Not Wish to Provide			
Citizenship: (Select one)			
Not Reported			
Permanent Resident	X		
Other Non-U.S. Citizen			
U. S. Citizen			

Common Collection Categories Questions	Staff and Project Participant	Project Implementation Characteristics	Project Outputs
	S		
Thrust Areas Mark one or more thrust areas in which this participant participated during the current reporting period:  • Education and Outreach • Thrust Area 1 • Thrust Area 2 • • N/A		X	
Student-Specific Information			
Academic Level as of the September 1 20yy:      Graduated between July 1 and Sept. 1     Graduate Doctorate     Graduate Master's     Graduate Other     Undergraduate Senior     Undergraduate Junior     Undergraduate Freshman     Undergraduate Other	X		X
Area of Study: (Select one)  Agricultural Sciences 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	X		
If the student received a degree during the current reporting period, enter the degree received, area of study, and (for students receiving a master's degree or Ph.D.) title of the thesis or dissertation.  Degree Received: (Select one):	X		X

Common Collection Categories	Staff and Project Participant	Project Implementation Characteristics	Project Outputs
Questions	Staf		Pro
Which of the following kinds of financial support did the student receive through the CREST center/HBCU-RISE award during the current reporting period? (Mark one or more):  • Tuition • Stipend • Other (Please specify):  Financial Support Source: (Select one) • NSF CREST/HBCU-RISE program • Other (Please specify):		X	
Indicate the number of academic terms of support received through the CREST center/HBCU-RISE award during the current reporting period, by type of support:  • Tuition • Stipend • Other		X	
What was the student's status at the end of the current reporting period?  (Mark one or more)  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	X
Other Personnel			
Name (First Name, Middle Name, Last Name)	X		
Cited-Only Information  Is this person a former participant who is listed only because he or she is cited on a proposal, award, presentation, collaborative project, patent, activity, and/or conference that is listed for the current reporting period?  • 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, Country) Phone Fax E-mail Address	X		
Mark this checkbox if 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).  Demographic Information		X	

Common Collection Categories Questions	Staff and Project Participant	Project Implementation Characteristics	Project Outputs
Gender: (Select one)			
Female	X		
Male     Not Properted.	2 1		
Not Reported  Ethnicity: (Salact one)			
Ethnicity: (Select one)  • Hispanic or Latino			
Not Hispanic or Latino	X		
Not Reported			
Race: (Mark one or more)			
Black or African American			
<ul> <li>American Indian or Alaska Native</li> <li>Native Hawaiian or Other Pacific Islander</li> </ul>	X		
Asian	1		
White			
Not Reported			
Disability Status: (Select one)			
<ul> <li>Yes (Select Yes if any of the following apply:</li> <li>Deaf or serious difficulty hearing</li> </ul>			
Blind or serious difficulty seeing even when wearing glasses	V		
Serious difficulty walking or climbing stairs	X		
<ul> <li>Other serious disability related to a physical, mental, or emotional condition)</li> </ul>			
• No			
Do Not Wish to Provide     Citizenship (Select one):			
Not Reported			
Permanent Resident	X		
Other Non-U.S. Citizen			
• U. S. Citizen			
Thrust Areas			
Mark one or more thrust areas in which this participant participated during			
the current reporting period:  • Education and Outreach		<b>T</b> 7	
Education and Outreach     Thrust Area 1		X	
• Thrust Area 2			
•			
• N/A			$\vdash \vdash \vdash$
Contributor	*7		
Name (First Name, Middle Name, Last Name)	X		
Contact Information:	X		
Institution (Name, Type, City, State/Region, Country)			
4			$\vdash \vdash \vdash$
4. Accomplishments			$\vdash \vdash$
Proposals/Awards			

Common Collection Categories	Staff and Project Participant	Project Implementation Characteristics	Project Outputs
Questions	Staff a Par	P Imple Char	Proje
Status			
• Proposal			X
Award			
Title			X
Thrust Area: (Select one)			
Education and Outreach		***	
• Thrust Area 1		X	
• Thrust Area 2			
Funding Source Type: (Select one)			
• Federal			
• State			
University			X
• Industry			
Foundation			
• Other			
Funding Source Name			X
Was this an NSF funding source? (Select one)			
• Yes			X
• No			
Type of Award: (Select one)			
• Research			<b>V</b>
Education			X
Other			
Center Award Amount (for Awards only)			X
Grant Award Amount (for Awards only)			X
Key Participants:			
Primary Participant			
Name (First Name, Middle Name, Last Name)			
Institution			
Participant/Contributor 2		X	
Name (First Name, Middle Name, Last Name)			
Institution			
Participant/Contributor 3			
_			
Description of How CREST/HBCU-RSE Contributed to This			
Accomplishment			X
Presentations			
			v
Presentation Title			X

Common Collection Categories Questions	Staff and Project Participant	Project Implementation Characteristics	Project Outputs
Thrust Area (Select one)  • Education and Outreach			
• Thrust 1		X	
• Thrust 2			
•			
Presentation Location			
Institution (Name, Type, City, State/Region, Country)			
OR			X
Conference Name			
Conference Location (City, State)			
Approximate Audience Size			X
Presentation Date			X
Key Participants:			
Primary Participant			
Name (First Name, Middle Name, Last Name)			
Institution			
Participant/Contributor 2		X	
Name (First Name, Middle Name, Last Name)			
Institution			
Participant/Contributor 3			
•••			
Description of How CREST/HBCU-RISE Contributed to This Presentation			X
Publications			
Publication Title			X
Thrust Area (Select one)			
Education and Outreach		v	
<ul><li>Thrust Area 1</li><li>Thrust Area 2</li></ul>		X	
•			
Publication Name			X
Publication Type: (Select one)			
Book chapter or textbook			X
Article in refereed journal			
Article in public proceedings			
Status of Publication: (Select one)			
<ul><li>Accepted, Awaiting Publication</li><li>Other (Please specify):</li></ul>			X
Published (Volume, Year)			1
Submitted, Under Review			

Common Collection	ject It Hine	tion	outs
Categories	Staff and Project Participant	Project Implementation Characteristics	Project Outputs
Questions	Star	Im	Pro
Citation:			
Page Number			X
URL			$ \Lambda $
Other Citation			
Key Participants:			
Primary Participant			
Name (First Name, Middle Name, Last Name)			
Institution			
Participant/Contributor 2		X	
Name (First Name, Middle Name, Last Name)			
Institution			
Participant/Contributor 3			
•••			
Description of How CREST/HBCU-RISE Contributed to This Publication			X
Collaborative Projects			
Collaborative Project Title			X
Thrust Area (Select one)			
Education and Outreach		37	
• Thrust Area 1		X	
• Thrust Area 2			
Key Participants:			
Primary Participant			
Name (First Name, Middle Name, Last Name)			
Institution			
Participant/Contributor 2		X	
Name (First Name, Middle Name, Last Name)			
Institution			
Participant/Contributor 3			
Description of How CREST/HBCU-RISE Contributed to This Collaborative			v
Project			X

Common Collection Categories	Staff and Project Participant	Project Implementation Characteristics	Project Outputs
Questions	Sta	In	Pr
Collaborative Partner(s): Institution 1 (Name, Type, City, State/Region, Country) Funding Source: (Mark one or more)  • Federal  • State  • University			
<ul> <li>Industry</li> <li>Other (Please specify):</li> <li>NSF Programs Related to This Partner: (Mark one or more)</li> <li>(for institution type=University only)</li> </ul>			
NSF Program Center Name  Centers for Learning and Teaching (CLT)			
Centers for Ocean Science Education Excellence (COSEE)		X	
Chemical Bonding Centers (CBC)  Engineering Research Centers (ERC)  Industry/University Cooperative Research Centers  Program (I/UCRC)		Λ	
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			
Institution 2			
Did the collaboration provide research for undergraduates? (Select one)  • Yes  • No		X	X
Research for graduates? (Select one)  • Yes  • No		X	X
Research for postdocs? (Select one)  • Yes  • No		X	X

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Collection	oje nt	rtio]	pat
Categories	Staff and Project Participant	Project Implementation Characteristics	Project Outputs
Questions	S		Ы
Is this collaboration international? (Select one)			
• Yes			
• No			
		X	X
If yes, was this collaboration planned as a part of your proposal or			
developed later during the award period? (Select one)			
• Proposal			
Award period			
Patents			177
Patent Title			X
Thrust Area: (Select one)			
Education and Outreach		v	
<ul><li>Thrust Area 1</li><li>Thrust Area 2</li></ul>		X	
• Inrust Area 2			
Year Submitted			X
Application Number			X
Allowed: (Select one)			Λ
• Yes			X
• No			11
Patent Number			X
Key Participants:			
Primary Participant			
Name (First Name, Middle Name, Last Name)			
Institution			
Participant/Contributor 2		X	
Name (First Name, Middle Name, Last Name)			
Institution			
Participant/Contributor 3			
Description of How CREST/HBCU-RISE Contributed to This Patent			X
Activities			
Activity Title			X
Thrust Area: (Select one)			1
Education and Outreach			
Thrust Area 1		X	
• Thrust Area 2			
•			

Common Collection Categories	Staff and Project Participant	Project Implementation Characteristics	Project Outputs
Questions	Staff an Parti	Pr. Implen Chara	Project
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  Safety activities			X
Activity Start Date			X
Activity End Date			X
Institutions Involved: Institution 1 (Name, Type, City, State/Region, Country) Institution 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	
Highlights of Outstanding Accomplishments			X
Impact of Activity on Faculty, Students and/or the Scientific Community			X
Description of How CREST/HBCU-RISE Contributed to This Activity			X
Conferences Organized			X
Conference Title			X
Conference Topic			X
Thrust Area: (Select one)  • Education and Outreach  • Thrust Area 1  • Thrust Area 2		X	
Conference Start Date			X
Conference End Date			X

Common Collection Categories	Project pant	ect ntation rristics	utputs
Questions	Staff and Project Participant	Project Implementation Characteristics	Project Outputs
Conference Location:			
Institution (Name, Type, City, State/Region, Country)			
OR			X
Conference Location (City, State)			
Invited Speakers		X	
Undergraduate Participant Count		X	X
Graduate Participant Count		X	X
Postdoc Participant Count		X	X
Faculty Participant Count		X	X
Other Sponsoring Organization(s)		X	
Conference URL			X
Key Participants:			
Primary Participant			
Name (First Name, Middle Name, Last Name)			
Institution			
Participant/Contributor 2		X	
Name (First Name, Middle Name, Last Name)			
Institution			
Participant/Contributor 3			
Description of How CREST/HBCU-RISE Contributed to This Conference			X
5. Functional Budget			

Common Collection Categories Questions								Participant Characteristics	Project Implementation Characteristics	Project Outputs			
Budget data by source of	suppo	rt and	d func	tiona	l area:								
					Source								
Funds Allocated to	NSF CREST	Other NSF	Other Endoral	State	Local Government	Industry	University	Other	Total				
Education and Outreach												X	
Thrust 1 Thrust 2													
CREST/HBCU-RISE Administration Education Coordinator Outreach and Knowledge Transfer Coordinator Total													

# CREST/HBCU-RISE: Number of Respondents, Frequency of Response, and Annual Hour Burden

The estimated average number of annual respondents is 42 (31 CREST center PIs/program coordinators and 11 HBCU-RISE award PIs/program coordinators), with an estimated annual response burden of 1,648 hours. The Web-based data collection is an annual activity of the CREST/HBCU-RISE program. The respondents are either PIs or program coordinators. Generally, 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 two 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	31	45	1,395	
coordinators				
<b>HBCU-RISE</b> award				
PIs/program	11	23	253	
coordinators				
Total	42	39.24	1,648	

# CREST/HBCU-RISE: 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 1,648 hours. The annual burden by form was calculated as follows:

Form Type	Respondent Type	No. of Respondents	Per	
CREST/HBCU-	PIs/program			
RISE data	coordinators	42	39.24	1,648
collection form				
Total		42		1,648

#### **CREST/HBCU-RISE: Estimates of Annualized Cost to Respondents for the Hour Burdens**

The overall annualized cost to the respondents is estimated to be \$75,812. The following table shows the annualized estimate of cost to PI/program coordinator respondents, who are generally university professors. The estimated hourly rate is based on a report from the American Association of University Professors, "The Annual Report on the Economic Status of the Profession, 2017–18," Survey Report Table 1. According to this report, the average salary across all academic ranks and across all types of doctoral-granting institutions (public, private-independent, religiously affiliated) was \$95,176. When divided by the number of standard annual work hours (2,080), this calculates to approximately \$46 per hour. That rate and the corresponding total annual cost are indicated in the table below:

Respondent Type	No. of Respondents	Burden Hours Per Respondent	Average Hourly Rate	Estimated Annual Cost	
PIs/program coordinators	42	39.24	\$46	\$75,812	
Total	42			\$75,812	

#### **CREST/HBCU-RISE: Estimates of Costs to the Federal Government**

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

Operational Activities	Cost Over Three Years
System Development (includes initial development of the database and Web-based application, and later changes requested by the program, e.g., increased reporting tools, additional validations)	\$148,113
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)	\$266,603
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 Follow-up Activities (e.g., providing data to other consultants)	\$177,735
Three-Year Total for All Operational Activities	\$592,450

The annualized cost was computed as one-third of the total three-year cost; thus, the annualized cost to NSF for the CREST/HBCU-RISE data collection is \$197,483.

#### **CREST/HBCU-RISE: Questions**

#### 1. Center/Award Information

Center/Award Name

Street Address 1

Street Address 2

City

State

**ZIP** Code

Phone Number

Fax Number

E-mail Address

URL

Number of undergraduate students supported by the CREST center/HBCU-RISE award during the current reporting period

Number of graduate students supported by the CREST center/HBCU-RISE award during the current reporting period

#### 2. Institutions

**Institution Name** 

Type of Institution (Select one)

- Federal Government
- Industry
- Local Government
- Non-Profit
- Other
- State Government
- University or College

City

State/Region

Country

#### 3. Participants

#### Principal Investigator (PI)/Co-Principal Investigator (Co-PI)

Name (First Name, Middle Name, Last Name)

Cited-Only Information

Is this person a former participant who is listed only because he or she is cited on a proposal, award, presentation, collaborative project, patent, activity, and/or conference that is listed for the current reporting period?

- Yes (*No other questions in the section are asked.*)
- No (All other questions in the section are asked. Lead PI's status defaults to No.)

#### Contact Information:

Institution (Name, Type, City, State/Region, Country)

Address at Institution

City

State/Region

Country

ZIP Code

Phone Number

Fax Number

E-mail Address

#### Demographic Information

# 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 Status: (Select one)

- Yes (Select 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

Mark one or more thrust areas in which this participant participated during the current reporting period:

- Education and Outreach
- Thrust Area 1
- Thrust Area 2
- •

#### Faculty/Postdoc

Name (First Name, Middle Name, Last Name)

#### Cited-Only Information

Is this person a former participant who is listed only because he or she is cited on a proposal, award, presentation, collaborative project, patent, activity, and/or conference that is listed for the current reporting period?

- Yes (*No other questions in the section are asked.*)
- No (All other questions in the section are asked.)

#### Contact Information:

Institution (Name, Type, City, State/Region, Country)

Academic Rank: (Select one)

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

Address at Institution

City

State/Region

Country

**ZIP** Code

Phone Number

Fax Number

E-mail Address

**URL** 

#### Demographic Information

#### 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 Status: (Select one)

- Yes (Select 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

Mark one or more thrust areas in which this participant participated during the current reporting period:

- Education and Outreach
- Thrust Area 1
- Thrust Area 2
- •
- N/A

# Support

Provide the number of months of direct or indirect support this participant received from the CREST center/HBCU-RISE award during the current reporting period.

#### Student

Name (First Name, Middle Name, Last Name)

#### Cited-Only Information

Is this person a former participant who is listed only because he or she is cited on a proposal, award, presentation, collaborative project, patent, activity, and/or conference that is listed for the current reporting period?

- Yes (*No other questions in the section are asked.*)
- No (All other questions in the section are asked.)

#### Contact Information:

Institution (Name, Type, City, State/Region, Country)

Address at Institution

City

State/Region

Country

**ZIP** Code

Phone Number

Fax Number

E-mail Address

**URL** 

# **Demographic Information**

#### 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 Status: (Select one)

- Yes (Select 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)

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

#### Thrust Areas

Mark one or more thrust areas in which this participant participated during the current reporting period:

- Education and Outreach
- Thrust Area 1
- Thrust Area 2
- .
- N/A

# Student-Specific Information

# Academic Level as of the September 1 20yy:

- Graduated between July 1 and Sept. 1
- Graduate Doctorate
- Graduate Master's
- Graduate Other
- Undergraduate Senior
- Undergraduate Junior
- Undergraduate Sophomore
- Undergraduate Freshman
- Undergraduate Other

#### Area of Study: (Select one)

- Agricultural Sciences
- 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

If the student received a degree during the current reporting period, enter the degree received, area of study, and (for students receiving a master's degree or Ph.D.) title of the thesis or dissertation.

#### Degree Received: (Select one):

- Bachelor's
- Master's
- Ph.D.

#### Title of Thesis or Dissertation

Which of the following kinds of financial support did the student receive through the CREST center/HBCU-RISE award during the current reporting period? (Mark one or more):

- Tuition
- Stipend
- Other (Please specify):

Financial Support Source: (Select one)

- NSF CREST/HBCU-RISE program
- Other (Please specify):

Indicate the number of academic terms of support received through the CREST center/HBCU-RISE award during the current reporting period, by type of support:

- Tuition
- Stipend
- Other

What was the student's status at the end of the current reporting period? (Mark one or more)

- 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)

#### Other Personnel

Name (First Name, Middle Name, Last Name)

#### Cited-Only Information

Is this person a former participant who is listed only because he or she is cited on a proposal, award, presentation, collaborative project, patent, activity, and/or conference that is listed for the current reporting period?

- Yes (No other questions in the section are asked.)
- No (All other questions in the section are asked.)

#### **Contact Information:**

Institution (Name, Type, City, State/Region, Country)

Phone

Fax

E-mail Address

Mark this checkbox if 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).

# **Demographic Information**

#### 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 Status: (Select one)

- Yes (Select 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):

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

#### Thrust Areas

Mark one or more thrust areas in which this participant participated during the current reporting period:

- Education and Outreach
- Thrust Area 1
- Thrust Area 2
- ..
- N/A

# Contributor Name (First Name, Middle Name, Last Name) Contact Information: Institution (Name, Type, City, State/Region, Country) 4. Accomplishments Proposals/Awards Status **Proposal** Award Title Thrust Area: (Select one) **Education and Outreach** Thrust Area 1 Thrust Area 2 Funding Source Type: (Select one) Federal State University Industry Foundation Other Funding Source Name Was this an NSF funding source? (Select one) Yes No Type of Award: (Select one) Research Education Other Center Award Amount (for Awards only) Grant Award Amount (for Awards only) 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/HBCU-RSE Contributed to This Accomplishment

Presentations
Presentation Title

#### Thrust Area (Select one)

- Education and Outreach
- Thrust 1
- Thrust 2
- ...

#### **Presentation Location**

Institution (Name, Type, City, State/Region, Country)

#### OR

#### Conference Name

Conference Location (City, State)

# Approximate Audience Size

#### Presentation Date

#### **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

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# Description of How CREST/HBCU-RISE Contributed to This Presentation

#### **Publications**

#### **Publication Title**

#### Thrust Area (Select one)

- Education and Outreach
- Thrust Area 1
- Thrust Area 2
- ...

#### **Publication Name**

#### Publication Type: (Select one)

- Book chapter or textbook
- Article in refereed journal
- Article in public proceedings

#### Status of Publication: (Select one)

- Accepted, Awaiting Publication
- Other (Please specify):
- Published (Volume, Year)
- Submitted, Under Review

#### Citation:

Page Number

URL

Other Citation

**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

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# Description of How CREST/HBCU-RISE Contributed to This Publication

# **Collaborative Projects**

#### Collaborative Project Title

#### Thrust Area (Select one)

- Education and Outreach
- Thrust Area 1
- Thrust Area 2
- ..

#### **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

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Description of How CREST/HBCU-RISE Contributed to This Collaborative Project

Collaborative Partn	er(s):		
Institution 1 (Name,	Type, City, State/Region, Country)		
Funding Source: (N			
• Federal	,		
<ul> <li>State</li> </ul>			
<ul> <li>University</li> </ul>			
<ul> <li>Industry</li> </ul>			
<ul> <li>Other (Please)</li> </ul>			
NSF Programs Rela	ated to This Partner: (Mark one or m	nore)	
(for institution type	=University only)		
	NSF Program	Center Name	
Centers for I	Learning and Teaching (CLT)		1
Centers for C	Ocean Science Education Excellence		
(COSEE)			
	onding Centers (CBC)		
	Research Centers (ERC)		
Industry/Uni Program (I/U	versity Cooperative Research Centers JCRC)		
	search Science and Engineering Centers		1
	earning Centers (SLC)		-
	Technology Centers (STC)		†
	for Research and Education in		†
Materials (Pl	REM)		
Integrative C (IGERT)	Graduate Education Traineeship Program		
Alliances for	Graduate Education and the		
Professoriate	e (AGEP)		
Institution 2			
•••			
Did the collaboration	on provide research for undergradua	tes? (Select one)	
• Yes			
• No			
Research for gradua	ates? (Select one)		
• Yes			
• No	2 (2.1		
Research for postdo	ocs? (Select one)		
• Yes			
• No			
	n international? (Select one)		
• Yes			
• No			
If yes, was this	collaboration planned as a part of yo	our proposal or devel	oped later during the award
period? (Select		1 1	
Proposal	/		
Award pe	riod		
Patents			

#### Patent Title

#### Thrust Area: (Select one)

- Education and Outreach
- 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/HBCU-RISE Contributed to This Patent

#### **Activities**

#### Activity Title

#### Thrust Area: (Select one)

- Education and Outreach
- 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
- Safety activities

#### **Activity Start Date**

# **Activity End Date**

#### Institutions Involved:

Institution 1 (Name, Type, City, State/Region, Country)

Institution 2

...

**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 Highlights of Outstanding Accomplishments Impact of Activity on Faculty, Students and/or the Scientific Community Description of How CREST/HBCU-RISE Contributed to This Activity **Conferences Organized** Conference Title Conference Topic Thrust Area: (Select one) **Education and Outreach** Thrust Area 1 Thrust Area 2 Conference Start Date Conference End Date Conference Location: Institution (Name, Type, City, State/Region, Country) OR Conference Location (City, State) **Invited Speakers** Undergraduate Participant Count **Graduate Participant Count** Postdoc Participant Count Faculty Participant Count Other Sponsoring Organization(s) Conference URL **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/HBCU-RISE Contributed to This Conference

**5. Functional Budget**Budget data by source of support and functional area:

					Source	2			
	NSF CREST	Other NSF	Other	State	Local	Industry	University	Other	Total
Funds Allocated to									
Education and Outreach									
Thrust 1									
Thrust 2									
•••									
CREST/HBCU-RISE									
Administration									
Education Coordinator									
Outreach and Knowledge Transfer Coordinator									
Total									