

NSF NEES

Earthquake Engineering Award Principal Investigator (PI) Survey

Every page is a full-screen shot of the survey unless otherwise stated as “continued from previous page”

Earthquake Engineering Award Principal Investigator (PI) Survey

OMB #: xxxx-xxxx

Expiration Date: xx/xxxx

Welcome to the earthquake engineering PI survey. Public reporting burden for this collection of information is estimated to average thirty minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB control number. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to: Suzanne Plimpton, National Science Foundation, 4201 Wilson Blvd., Room 295, Arlington, VA, 22230, ATTN: PRA (xxxx-xxxx). Do not return the completed form to this address.

This survey is being implemented by the IDA Science and Technology Policy Institute on behalf of the National Science Foundation (NSF). The purpose of the survey is to assess the experiences and opinions of principal investigators on NSF-funded earthquake engineering awards. You are being asked to participate because you have been identified as a PI on the following award(s): [insert title and grant number]. If this is not the case, or if you have any questions, comments, or concerns about participation in this study please contact: Dr. Brian Zuckerman (bzuckerm@ida.org).

To begin the survey, please click the arrow at the bottom-left.

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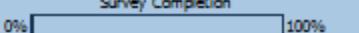
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The following questions refer to the following NSF-funded research project: [insert title and award number], for which you were a Principal Investigator.

What is the current status of the NSF-funded research project [insert title and award number]?

The project is complete (NSF has accepted the project's final report)
 The project is still in progress

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SECTION 1: RESEARCH QUESTION AND APPROACH

1. Please indicate the field or fields that best describe your NSF-funded research project. (Check all that apply.)

<input type="checkbox"/> Biological Sciences	<input type="checkbox"/> Policy and/or emergency management
<input type="checkbox"/> Coastal engineering	<input type="checkbox"/> Risk assessment
<input checked="" type="checkbox"/> Computational modeling	<input type="checkbox"/> Seismology
<input type="checkbox"/> Experimental earthquake engineering	<input type="checkbox"/> Sensors/sensor networks
<input type="checkbox"/> Geophysics	<input type="checkbox"/> Soil sciences
<input type="checkbox"/> Geotechnical engineering and/or design	<input type="checkbox"/> Structural control
<input type="checkbox"/> Hydrology	<input type="checkbox"/> Structural engineering and/or design
<input type="checkbox"/> Materials science	<input type="checkbox"/> Structural health monitoring
<input type="checkbox"/> Nonstructural systems	<input type="checkbox"/> Tsunami engineering
<input type="checkbox"/> Oceanography	<input type="checkbox"/> Other: <input type="text"/>

2. In 1-2 sentences, state the objective of your research project.

3. To the best of your knowledge, have there been previous attempts to answer the same or similar research questions?

- Yes, other groups have sought to answer similar questions (I sought to add to or advance knowledge beyond previous work)
- No, I am not aware of previous attempts to answer similar questions

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4. What do you believe were the most novel aspects of your approach to the research question(s)?

5. Did your project include any of the following approaches? (Check all that apply.)

- Hybrid simulation (integrated experiment involving physical and simulated components)
- Advanced sensors and/or sensor configurations
- New/experimental instrumentation other than sensors
- New/advanced computational algorithms
- New/advanced data mining tools
- New/advanced visualization tools
- Other new/advanced analytic tools
- Advanced computational resources
- New/advanced construction materials

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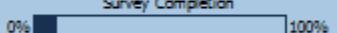
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SECTION 2: USE OF EXPERIMENTAL FACILITIES AND OTHER RESEARCH RESOURCES

6. Did your research project involve the use of experimental facilities?

Yes

No

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- The surveyor has the option of entering other facilities – these facilities are carried forward in follow-up question 6.3.1.

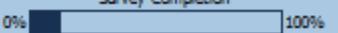
6.1 Did your project make use of the following experimental facilities?

	Yes	No
Cornell University: NEES Lifeline Testing Facility	<input type="radio"/>	<input checked="" type="radio"/>
Lehigh University: NEES Real-Time Multidirectional Testing (RTMD) Facility	<input type="radio"/>	<input checked="" type="radio"/>
Oregon State University: NEES Large Wave Flume	<input type="radio"/>	<input checked="" type="radio"/>
Oregon State University: NEES Tsunami Wave Basin	<input type="radio"/>	<input checked="" type="radio"/>
Rensselaer Polytechnic Institute: NEES Geotechnical Centrifuge Facility	<input type="radio"/>	<input checked="" type="radio"/>
University at Buffalo, The State University of New York: NEES Laminar Soil Box	<input type="radio"/>	<input checked="" type="radio"/>
University at Buffalo, The State University of New York: NEES Non-structural Component Simulator	<input type="radio"/>	<input checked="" type="radio"/>
University at Buffalo, The State University of New York: NEES Shake Tables	<input type="radio"/>	<input checked="" type="radio"/>
University of California, Berkeley: NEES Reconfigurable Reaction Wall Facility	<input type="radio"/>	<input checked="" type="radio"/>
University of California, Davis: NEES Geotechnical Centrifuge Facility	<input type="radio"/>	<input checked="" type="radio"/>
University of California, Los Angeles (operated by): NEES Field-Testing Equipment and associated instrumentation	<input type="radio"/>	<input checked="" type="radio"/>
University of California San Diego: NEES Large High-Performance Outdoor Shake Table	<input type="radio"/>	<input checked="" type="radio"/>
University of California, Santa Barbara (operated by):NEES Wild Life Refuge Array or Garner Valley site	<input type="radio"/>	<input checked="" type="radio"/>
University of Illinois, Urbana-Champaign: NEES Multi-Axial Full-Scale Sub-Structuring Testing and Simulation (MUST-SIM) Facility	<input type="radio"/>	<input checked="" type="radio"/>
University of Minnesota, Twin Cities: NEES Multi-Axial Subassemblage Testing (MAST)	<input type="radio"/>	<input checked="" type="radio"/>
University of Nevada, Reno: NEES Biaxial Multiple Shake Table Research Facility	<input type="radio"/>	<input checked="" type="radio"/>
University of Texas, Austin (operated by): NEES Mobile Shakers and Associated Instrumentation	<input type="radio"/>	<input checked="" type="radio"/>
Miki, Japan: Japan's E-Defense Shake Table Facility	<input type="radio"/>	<input checked="" type="radio"/>
Other Geotechnical Centrifuge Laboratory (Please specify location of facility) <input type="text"/>	<input type="radio"/>	<input checked="" type="radio"/>
Other Permanently Instrumented Field Site (Please specify location of facility) <input type="text"/>	<input type="radio"/>	<input checked="" type="radio"/>
Other Field Mobile Equipment (Please specify location of facility) <input type="text"/>	<input type="radio"/>	<input checked="" type="radio"/>
Other Reaction Wall or Strong Floor Laboratory (Please specify location of facility) <input type="text"/>	<input type="radio"/>	<input checked="" type="radio"/>
Other Shake Table (Please specify location of facility) <input type="text"/>	<input type="radio"/>	<input checked="" type="radio"/>
Other Tsunami Wave Basin (Please specify location of facility) <input type="text"/>	<input type="radio"/>	<input checked="" type="radio"/>
Other (Please specify location of facility) <input type="text"/>	<input type="radio"/>	<input checked="" type="radio"/>

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6.2 Did you consider other facilities before choosing the one(s) you used?

Yes
 No

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6.2.1 If yes, why did you select this facility or group of facilities over possible alternatives?

6.3 Did the project involve multi-site simulation or hybrid simulation (integrated experiment involving physical and simulated components)?

Yes

No

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- Example:
Facility1-7 entered as other facilities in Question 6.1 and were carried forward.

6.3.1 Which facilities were involved in the multi-site or hybrid simulation?

	Yes	No
Cornell University: NEES Lifeline Testing Facility	<input type="radio"/>	<input type="radio"/>
Lehigh University: NEES Real-Time Multidirectional Testing (RTMD) Facility	<input type="radio"/>	<input type="radio"/>
Oregon State University: NEES Large Wave Flume	<input type="radio"/>	<input type="radio"/>
Oregon State University: NEES Tsunami Wave Basin	<input type="radio"/>	<input type="radio"/>
Rensselaer Polytechnic Institute: NEES Geotechnical Centrifuge Facility	<input type="radio"/>	<input type="radio"/>
University at Buffalo, The State University of New York: NEES Laminar Soil Box	<input type="radio"/>	<input type="radio"/>
University at Buffalo, The State University of New York: NEES Non-structural Component Simulator	<input type="radio"/>	<input type="radio"/>
University at Buffalo, The State University of New York: NEES Shake Tables	<input type="radio"/>	<input type="radio"/>
University of California, Berkeley: NEES Reconfigurable Reaction Wall Facility	<input type="radio"/>	<input type="radio"/>
University of California, Davis: NEES Geotechnical Centrifuge Facility	<input type="radio"/>	<input type="radio"/>
University of California, Los Angeles (operated by): NEES Field-Testing Equipment and associated instrumentation	<input type="radio"/>	<input type="radio"/>
University of California San Diego: NEES Large High-Performance Outdoor Shake Table	<input type="radio"/>	<input type="radio"/>
University of California, Santa Barbara (operated by):NEES Wild Life Refuge Array or Garner Valley site	<input type="radio"/>	<input type="radio"/>
University of Illinois, Urbana-Champaign: NEES Multi-Axial Full-Scale Sub-Structuring Testing and Simulation (MUST-SIM) Facility	<input type="radio"/>	<input type="radio"/>
University of Minnesota, Twin Cities: NEES Multi-Axial Subassemblage Testing (MAST)	<input type="radio"/>	<input type="radio"/>
University of Nevada, Reno: NEES Biaxial Multiple Shake Table Research Facility	<input type="radio"/>	<input type="radio"/>
University of Texas, Austin (operated by): NEES Mobile Shakers and Associated Instrumentation	<input type="radio"/>	<input type="radio"/>
Miki, Japan: Japan's E-Defense Shake Table Facility	<input type="radio"/>	<input type="radio"/>
Other Geotechnical Centrifuge Laboratory: Facility1	<input type="radio"/>	<input type="radio"/>
Other Permanently Instrumented Field Site: Facility2	<input type="radio"/>	<input type="radio"/>
Other Field Mobile Equipment: Facility3	<input type="radio"/>	<input type="radio"/>
Other Reaction Wall or Strong Floor Laboratory: Facility4	<input type="radio"/>	<input type="radio"/>
Other Shake Table: Facility5	<input type="radio"/>	<input type="radio"/>
Other Tsunami Wave Basin: Facility6	<input type="radio"/>	<input type="radio"/>
Other: Facility7	<input type="radio"/>	<input type="radio"/>

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6.4 Which of the following statements best describes the ease with which you obtained access to the facilities necessary for your research?

I easily obtained access to all the resources I considered necessary for my research project

I encountered difficulties obtaining access to certain resources, but the impact on my research schedule and/or the quality of my research was not severe

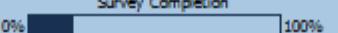
I encountered difficulties obtaining access to certain resources, and it caused significant delays and/or negatively impacted my research project

I was unable to obtain access to certain resources I considered necessary for my research project

7. Did your project make use of videoconferencing, web-based conferencing, real-time data viewers, or other telepresence tools to facilitate research?

Yes

No

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7.1 Which of the following best describes how telepresence tools were used to facilitate your research:

- Telepresence tools were used primarily to facilitate collaboration among members of the research team in different locations
- Telepresence tools were used to facilitate monitoring of experiments by individuals not physically present
- Both of the above
- Other (Please describe)

8. Did your project make use of wikis, project websites, or other network-based collaboration tools to facilitate research?

- Yes
- No

9. Did your project make use of existing experimental data gathered previously (by your group or by others) for a different purpose? (Do not include data gathered for routine monitoring or other non-experimental purposes such as the seismic data collected by USGS or other operated strong motion instrumentation networks.)

- Yes
- No



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9.1 What types of experimental data gathered for another purpose did you use? (Check all that apply.)

Experimental measurements
 Simulation results
 Video data
 Photographs or images
 Other (Please describe)

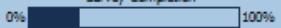
9.2 How did you obtain access to these experimental data? (Check all that apply.)

The data were my own
 The data were provided to me by a colleague via personal correspondence
 I obtained the data from NEEHub Project Warehouse (<http://nees.org/>)
 I obtained the data from another source (Please specify)

9.3 Please briefly describe how existing experimental data were used in your research.

10. Did your project make use of existing computational model(s) developed previously (by your group or by others) for a different purpose?

Yes
 No

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10.1 How did you obtain access to the existing model or models? (Check all that apply.)

- The model or models were my own
- The model or models were provided to me by a colleague via personal correspondence
- I obtained the model or models from NEEHub Project Warehouse (<http://nees.org/>)
- I obtained the model or models from another source (Please specify)

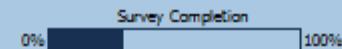
10.2 Please briefly describe how existing computational model(s) were used in your research.

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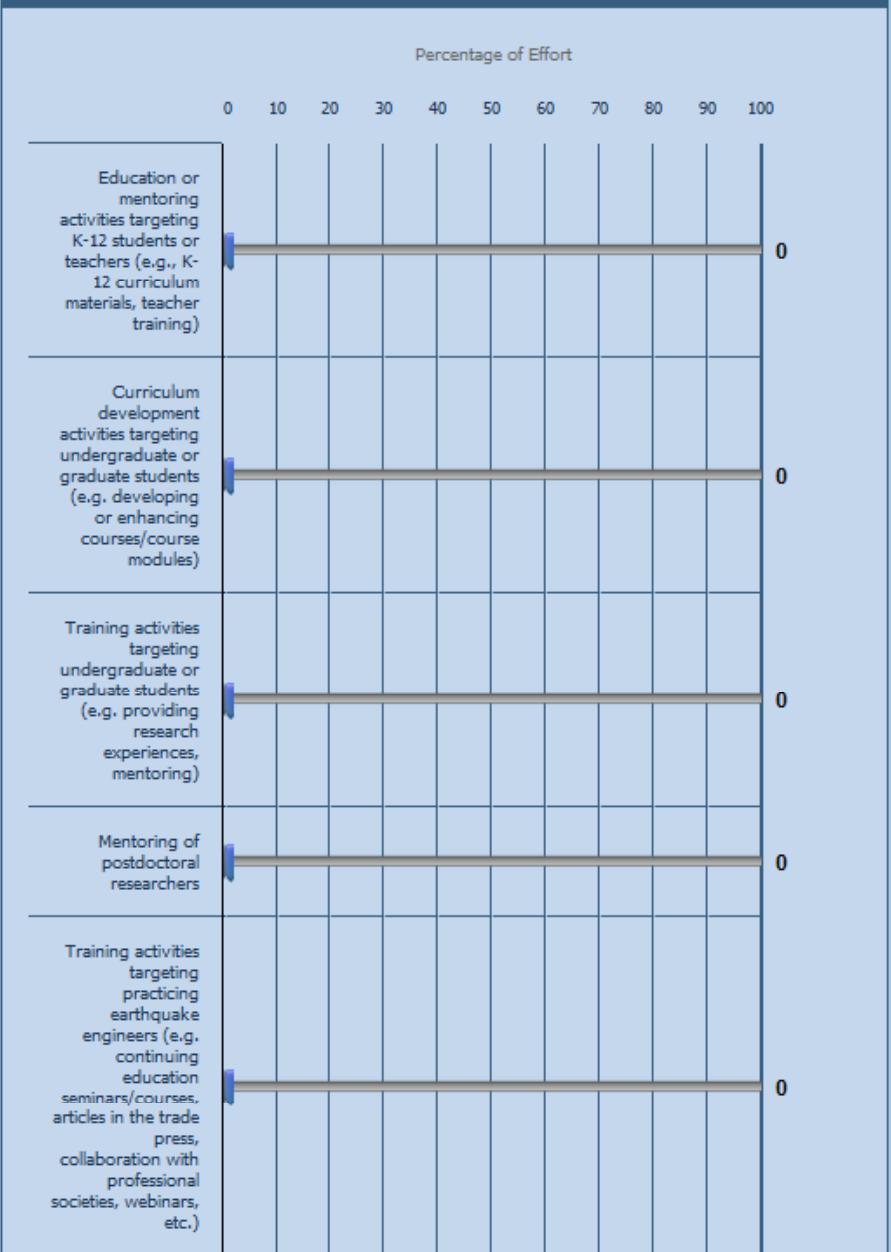
11. Were any of the following types of education, outreach, and training activities included in your project?
(Check all that apply.)

- Education or mentoring activities targeting K-12 students or teachers (e.g., K-12 curriculum materials, teacher training)
- Curriculum development activities targeting undergraduate or graduate students (e.g. developing or enhancing courses/course modules)
- Training activities targeting undergraduate or graduate students (e.g. providing research experiences, mentoring)
- Mentoring of postdoctoral researchers
- Training activities targeting practicing earthquake engineers (e.g. continuing education seminars/courses, articles in the trade press, collaboration with professional societies, webinars, etc.)
- Outreach activities intended to encourage members of under-represented groups to pursue training/careers in earthquake engineering (e.g. visits to primarily undergraduate or minority-serving institutions, providing information at conferences)
- Outreach activities aimed at the general public (e.g. public lectures, web-based seminars, museum exhibits, educational games, media coverage, short videos, podcasts)
- Other education, outreach, or training activities (Please specify)

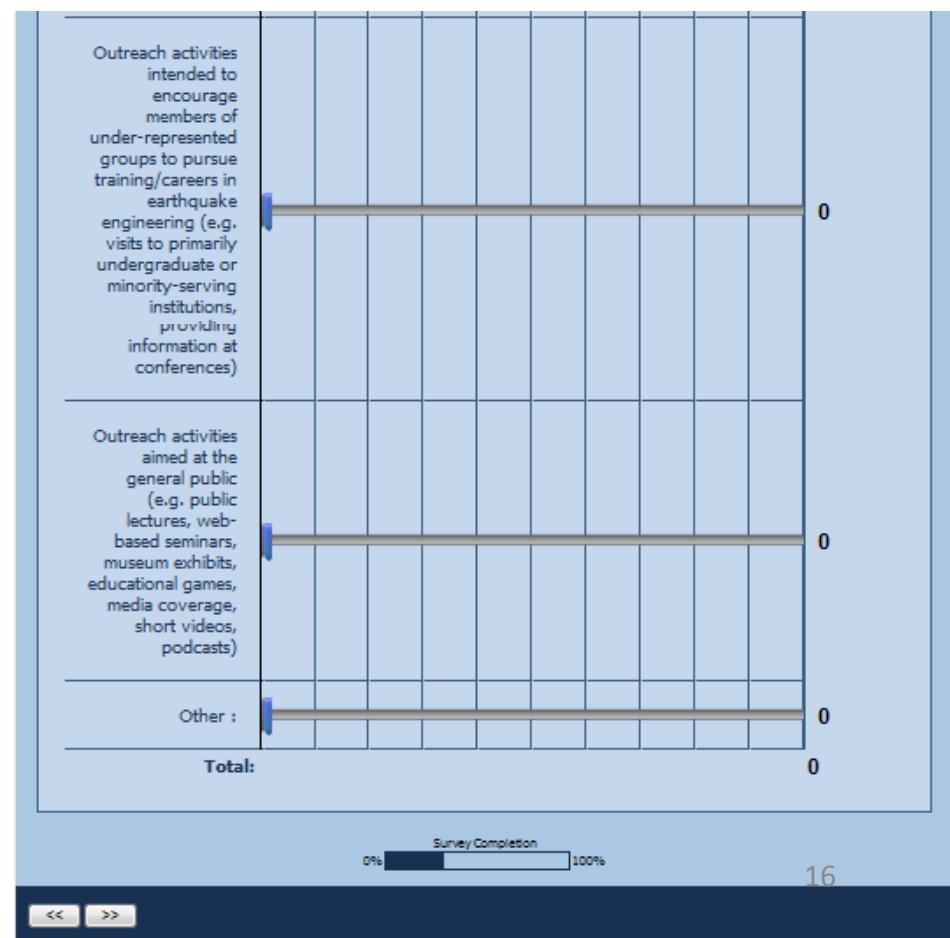


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11.1 Approximately what percentage of the total amount of effort you devoted to education, outreach, and training activities did you devote to the following: (Please be sure the total sums to 100%)



continued



12. Did your education, outreach, and training activities involve any of the following? (Check all that apply.)

- Development of network-enabled software applications or tools for computers or mobile devices
- Development of other (not network-enabled) software applications or tools for computers or mobile devices
- Development of websites or web-based software applications or tools
- Use of existing social networking websites or other social media tools
- Use of existing web-enabled databases or other data archives
- Use of telepresence tools for remotely viewing experiments or other training purposes
- Development of education, outreach, or training content or materials using non-traditional media (e.g. blogs, wikis, webinars, podcasts, etc.)
- Dissemination of education, outreach, or training content or materials via the web
- Other role for computers, networking, or information technology in education, outreach, and training
(Please describe)
- None of the above

12.1 Was there one or more URL(s) associated with your education, outreach, and training efforts?

- Yes
- No



12.2 Please specify where the URL(s) associated with your education, outreach, and training efforts was(were) located? (Check all that apply.)

- The URL was on my personal site
- The URL was on my department's or school's Internet site
- The URL was linked on the NEES Internet site
- The URL was hosted elsewhere

13. Did any of the following types of individuals participate in the project's research activities:

	Yes	No
Undergraduate students during the academic term?	<input type="radio"/>	<input type="radio"/>
Undergraduate students during the summer?	<input type="radio"/>	<input type="radio"/>
Graduate students?	<input type="radio"/>	<input type="radio"/>
Postdoctoral fellows?	<input type="radio"/>	<input type="radio"/>
K-12 teachers?	<input type="radio"/>	<input type="radio"/>

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13.1 How many of the individuals participated in the project's research activities?

	Please provide a number
Undergraduate students during the academic term?	<input type="text"/>
Undergraduate students during the summer?	<input type="text"/>
Graduate students?	<input type="text"/>
Postdoctoral fellows?	<input type="text"/>
K-12 teachers?	<input type="text"/>

13.2 Were any of these students funded through an NSF Research Experiences for Undergraduates (REU) award or award supplement?

	Yes	No	I don't remember
Undergraduate students during the academic term?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Undergraduate students during the summer?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>



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13.2.1 How many of these students were funded through an NSF Research Experiences for Undergraduates (REU) award or award supplement?

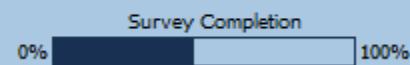
	Please provide a number
Undergraduate students during the academic term?	<input type="text"/>
Undergraduate students during the summer?	<input type="text"/>



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13.3 Were any of these individuals were funded through an NSF Research Experiences for Teachers (RET) award or award supplement?

	Yes	No	I don't remember
K-12 teachers?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>



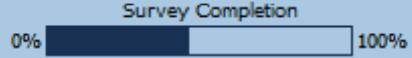
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13.3.1 How many of these individuals were funded through an NSF Research Experiences for Teachers (RET) award or award supplement?

	Please provide a number
» K-12 teachers?	<input type="text"/>

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SECTION 4: COLLABORATION

14. Did your project involve participation by at least one individual affiliated with the following:

	Yes	No
Predominantly undergraduate institutions?	<input type="radio"/>	<input checked="" type="radio"/>
Historically Black Colleges and Universities, Hispanic-Serving Institutions, Indian Tribally Controlled Colleges or Universities, Alaska Native-Serving Institutions, or Native Hawaiian-Serving Institutions (based on U.S. Department of Education definition, see http://www2.ed.gov/about/offices/list/ocr/edlite-minorityinst.html for specific definitions and lists of institutions)?	<input type="radio"/>	<input checked="" type="radio"/>
Industry and/or individual practicing engineers or other consultants?	<input type="radio"/>	<input checked="" type="radio"/>
US government agencies or laboratories?	<input type="radio"/>	<input checked="" type="radio"/>
State, municipal, or regional government agencies or laboratories?	<input type="radio"/>	<input checked="" type="radio"/>
Professional societies?	<input type="radio"/>	<input checked="" type="radio"/>
Foreign (non-US) government agencies or laboratories?	<input type="radio"/>	<input checked="" type="radio"/>
Foreign (non-US) academic institution or nonprofit?	<input type="radio"/>	<input checked="" type="radio"/>

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Which predominantly undergraduate institution(s)?

Which Historically Black Colleges and Universities, Hispanic-Serving Institutions, Indian Tribally Controlled Colleges or Universities, Alaska Native-Serving Institutions, or Native Hawaiian-Serving Institutions?

Which firm(s)?

Which Federal U.S. government agency/agencies or laboratory/laboratories?

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Which State, municipal, or regional government agency/agencies or laboratory/laboratories?

Which professional society/societies?

Which foreign (non-US) government agency/agencies or laboratory/laboratories?

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For individuals from foreign (non-US) government agencies or laboratories:		
	Yes	No
Did these individual(s) help to frame research questions?	<input type="radio"/>	<input type="radio"/>
Did these individual(s) conduct experiments or provide access to other resources?	<input type="radio"/>	<input type="radio"/>
Did these individual(s) contribute data?	<input type="radio"/>	<input type="radio"/>
Did these individual(s) participate in analysis of data?	<input type="radio"/>	<input type="radio"/>

Which foreign (non-US) academic institution(s) or nonprofit(s)?

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For individuals from foreign (non-US) government agencies or laboratories:		
	Yes	No
Did these individual(s) help to frame research questions?	<input type="radio"/>	<input type="radio"/>
Did these individual(s) conduct experiments or provide access to other resources?	<input type="radio"/>	<input type="radio"/>
Did these individual(s) contribute data?	<input type="radio"/>	<input type="radio"/>
Did these individual(s) participate in analysis of data?	<input type="radio"/>	<input type="radio"/>

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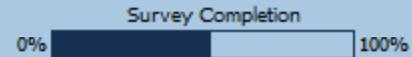
15. Please select the field(s) that best describe your own professional training/experience and the training/experience of the professionals with whom you collaborated or consulted on this project.

	I have training/experience in this field		At least one of my collaborators or consultants has training/experience in this field	
	Yes	No	Yes	No
Architecture	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
Computer science or software engineering	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
Electrical engineering	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
Geology	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
Geophysics	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
Geotechnical engineering	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
Hydrology or hydrogeology	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
Mathematics or statistics	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
Mechanical engineering	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
Materials science or engineering	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
Physics (including computational physics)	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
Seismology	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
Social sciences	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
Soil sciences	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
Structural engineering	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
Urban planning	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
Other (please specify)	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
Other (please specify)	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
Other (please specify)	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>

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16. Did you form any new collaborations (formal or informal) because of this research project?

Yes
 No

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16.1 How many new collaborations (formal or informal) were formed?

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16.2 For each new collaboration formed because of this research project, please indicate the following about your collaborator(s):

	Field(s) that best describes training/experience	Institutional affiliation?		Do you intend to collaborate with this individual again in the future?		
		Same as your home institution	Another institution	Yes	No	I don't know
Collaborator 1 (name optional)	<input type="text"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Collaborator 2 (name optional)	<input type="text"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Collaborator 3 (name optional)	<input type="text"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Collaborator 4 (name optional)	<input type="text"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Collaborator 5 (name optional)	<input type="text"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Collaborator 6 (name optional)	<input type="text"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Collaborator 7 (name optional)	<input type="text"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Collaborator 8 (name optional)	<input type="text"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Collaborator 9 (name optional)	<input type="text"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Collaborator 10 (name optional) - A maximum of 10 collaborators is displayed	<input type="text"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

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SECTION 5: RESEARCH OUTPUTS AND OUTCOMES

17. Did your project produce new experimental data?

- Yes
- No

Survey Completion

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17.1 What type(s) of data did your project produce? (Check all that apply.)

- Experimental measurements
- Simulation results
- Video data
- Photographs or images
- Other (Please describe)

17.2 Were data resulting from your research archived in a publicly-accessible dataystem for use by other researchers?

- Yes
- No



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17.2.1 Where were your data archived? (Check all that apply.)

- Archived on my personal Internet site
- Archived on my department's or school's Internet site
- Archived on the NEES Internet site
- Archived elsewhere

17.2.2 To the best of your knowledge, have your archived data been used by others?

- Yes
- No

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17.2.3 Please briefly describe the context in which your archived data were re-used.

18. Did your project produce one or more new computational models?

Yes

No

Survey Completion

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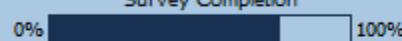
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18.1 Were the computational model(s) resulting from your research archived in a publicly-accessible data system for use by others?

Yes

No

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18.1.1 Where were your computational model(s) archived? (Check all that apply.)

- Archived on my personal Internet site
- Archived on my department's or school's Internet site
- Archived on the NEES Internet site
- Archived elsewhere

18.1.2 To the best of your knowledge, have your computational model(s) been used by others?

- Yes
- No

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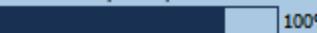
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18.1.3 Please briefly describe the context in which your computational model(s) were re-used.

19. Did your project produce one or more new software tools for research? (Please exclude software tools developed for education, outreach, and training purposes only.)

Yes
 No

Survey Completion

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19.1 Were the software tool(s) resulting from your research open source?

- Yes
- No

19.2 Were the software tool(s) resulting from your research created to facilitate hybrid or multi-site simulation?

- Yes
- No

19.3 Were the software tool(s) resulting from your research archived in a publicly-accessible database for use by other researchers?

- Yes
- No



19.3.1 Where were your software tool(s) archived? (Check all that apply.)

- Archived on my personal Internet site
- Archived on my department's or school's Internet site
- Archived on the NEES Internet site
- Archived elsewhere

19.3.2 To the best of your knowledge, have your software tool(s) been used by other researchers?

- Yes
- No

Survey Completion



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19.3.3 Please briefly describe the context in which your software tool(s) were used.

20. Did your project result in any of the following types of research outputs?

	Yes	No
Publication(s) in a peer-reviewed journal	<input type="radio"/>	<input type="radio"/>
Publication(s) in refereed conference proceedings	<input type="radio"/>	<input type="radio"/>
Presentation(s) or poster(s) at a scientific meeting	<input type="radio"/>	<input type="radio"/>
White papers(s), policy document(s), or other literature that is not peer-reviewed	<input type="radio"/>	<input type="radio"/>
Invention disclosure(s), patent application(s), and/or patent(s)	<input type="radio"/>	<input type="radio"/>
New or improved research method, protocol, material, and/or other research resource	<input type="radio"/>	<input type="radio"/>

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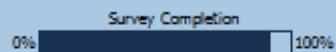
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20.1 How many of the following types of research outputs?

	Please provide a number
Publication(s) in a peer-reviewed journal	<input type="text"/>
Publication(s) in refereed conference proceedings	<input type="text"/>
Presentation(s) or poster(s) at a scientific meeting	<input type="text"/>
White papers(s), policy document(s), or other literature that is not peer-reviewed	<input type="text"/>
Invention disclosure(s), patent application(s), and/or patent(s)	<input type="text"/>
New or improved research method, protocol, material, and/or other research resource	<input type="text"/>

21. Please briefly describe what you consider to be the most important findings and/or results of your NSF-supported research project.

22. To the best of your knowledge, have any of your findings been incorporated into earthquake engineering practice? (e.g. building and bridge design codes, NIST technical briefs, specific construction projects)

 Yes No

22.1 Please briefly describe how your findings were incorporated into specific policies and/or practices.

23. To what extent do you agree or disagree with the following statements?

	Strongly Disagree	Disagree	Neither Agree nor Disagree	Agree	Strongly Agree
A. This research project radically changed our understanding of an important existing scientific or engineering concept or educational practice.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
B. This research project led to the creation of a new paradigm or field of science, engineering, or education.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
C. This research project challenged current understanding in the field involved.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
D. This research project provided pathways to new frontiers.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

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SECTION 6: CONCLUDING QUESTIONS

24. Is there anything else about your NSF-funded earthquake or tsunami engineering research project or your experience as a Principal Investigator that you would like to share with NSF?

25. Are there any additional comments you would like to make?





We thank you for your time spent taking this survey.
Your response has been recorded.

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