# Request for Approval under the "Generic Clearance for the Collection of Routine Customer Feedback" (OMB Control Number: 3145-0215)

**TITLE OF INFORMATION COLLECTION:** Usability-testing of a Tracking System for Research Experiences for Undergraduate Site Students

#### **PURPOSE:**

Mathematica Policy Research is developing an electronic data system for the National Science Foundation (NSF) in support of its Research Experiences for Undergraduate (REU) program. The data system (hereafter the "REU Data System") will be used to pilot test different approaches to collecting data required by Congress in the America COMPETES Reauthorization Act of 2010, which states that students in the REU program must "be tracked, for employment and continued matriculation in STEM fields, through receipt of the undergraduate degree and for at least three years thereafter" (Section 514[a][6] of Public Law 111-358). The purpose of this information collection is to conduct usability-testing of the REU Data System to a) ensure the content of the system works as intended (that is, items are eliciting the responses we seek), b) learn how long it takes to complete tasks, and c) identify potential areas to improve user-experience. Mathematica will use results from the usability testing to make revisions to the system and finalize the OMB clearance package before launching the system's pilot collection in fall 2018.

#### **DESCRIPTION OF RESPONDENTS:**

The REU Data System will provide a web-platform to pilot test two approaches to obtain basic student background and participation information—namely, a registration and a common application. Respondents are college/university students and current or former REU principal investigators who will volunteer to test the registration and the common application before the web application is launched in fall 2018. Specifically:

- College students testing the Registration will be asked to register at the REU Data System website to obtain a unique ID and submit basic demographic and contact information.
- College students testing the Common Application (which includes the Registration) will first navigate through the REU Registration as described in the prior bullet, and then proceed to the common application through which they will submit information commonly required by REU Sites as part of their applications, such as college GPA.
- Principal investigators testing the Registration or the Common Application. Principal investigators will register at the REU Data System website and either use the IDs provided by students (if testing the registration) or retrieve the applicants IDs (if testing the common application) to record application decisions (whether student was admitted and accepted an offer to participate) and the participation status of admitted applicants (whether they actually participated at their Site or not).

TYPE OF COLLECTION: (Check one)		
[] Customer Comment Card/Complaint Form [X] Usability Testing (e.g., Website or Software) [] Focus Group	[ ] Customer Satisfaction Survey [ ] Small Discussion Group [] Other:	
CERTIFICATION:		
<ol> <li>I certify the following to be true:</li> <li>The collection is voluntary.</li> <li>The collection is low-burden for respondents at 3. The collection is non-controversial and does not agencies.</li> <li>The results are not intended to be disseminated</li> <li>Information gathered will not be used for the present and the second of the seco</li></ol>	to the public.	
<ul> <li>i. Information gathered will not be used for the purpose of <u>substantially</u> informing <u>influential</u> policy decisions.</li> <li>ii. The collection is targeted to the solicitation of opinions from respondents who have experience with the program or may have experience with the program in the future.</li> </ul>		
Name: Suzanne H. Plimpton, NSF Reports Clear	ance Officer_	
To assist review, please provide answers to the foll	owing question:	
<ol> <li>Personally Identifiable Information:</li> <li>Is personally identifiable information (PII) colle</li> <li>If Yes, is the information that will be collected Privacy Act of 1974? [X] Yes [] No</li> <li>If Applicable, has a System or Records Notice</li> </ol>	included in records that are subject to the	
Gifts or Payments: Is an incentive (e.g., money or reimbursement of exparticipants? [X] Yes [ ] No	xpenses, token of appreciation) provided to	
The students will be offered a gift of \$40 for their pequivalent to four hours of time at minimum wagehour debrief to share experiences using the system, review of background information). Principal investments as they will be beneficiaries of the REU pro-	—including about 2 hours to test the system, 1, and 1 hour for logistics (coordination and estigators will not receive a gift for testing the	

<sup>&</sup>lt;sup>1</sup> Source of minimum wage information: <a href="https://www.dol.gov/whd/minwage/america.htm">https://www.dol.gov/whd/minwage/america.htm</a>

#### **BURDEN HOURS**

Category of Respondent	No. of	Participation	Burden
	Respondents	Time	
1. College students – Registration	5	2.5 hours	12.5 hours
2. College students – Common Application	5	4 hours	20 hours
3. REU Principal Investigators – Registration	5	2.5 hours	12.5 hours
or Common Application			
Totals	15	9	45 hours

#### **Explanation:**

1. College students testing the Registration: We plan to reach out to 5 college students to test the registration.

**Participation time (number of burden hours per respondent):** We estimate a total of 2.5 hours. The subset of 26 mostly multi-choice questions included in the registration would take a respondent about .5 hours to complete, assuming about 1 minute per question and 4 to 5 minutes to answer a handful questions needed to obtain a username and create a password. In addition, we assume 1 hour debrief to share experiences using the system and 1 hour for logistics (coordination and review of background information).

**2.** College students testing the Common Application: We plan to reach out to 5 college students to test the common application.

Participation time (number of burden hours per respondent): Based on the NSF GRFP common application, we estimate that the full REU common application will take 12 hours to complete. However, for the purpose of testing the system, respondents will be told not to spend time writing a personal statement or preparing their resume (as they would in a real application). Instead, they will test the functionality of uploading such documents (using mock documents provided for testing). Respondents testing the common application will therefore need to complete the registration, complete 15 multichoice common application items, and test functionalities for Site searching and uploading materials. We estimate it will take respondents a total of 4 hours to participate—including 2 hours to test the system, 1 hour debrief using the system, and 1 hour for logistics.

**3. REU Principal Investigators (PIs) in Registration and Common Application:** We estimate 5 REU principal investigator's respondents (at least one in each of the disciplines included in the pilot.) Respondents in biology and earth sciences will be piloting the registration and respondents in the engineering and mathematics the common application.

**Participation time (number of burden hours per respondent):** Burden for principal investigators is estimated to be 2.5 hours based on the time it takes each respondent to:

a) Provide information about their Site and submit additional application requirements (24 items at a rate of 1.25 minutes per item = 0.5 hours)

- b) Record applicant IDs (for those testing the registration), admissions decisions, acceptances, and participation (for those testing the registration or common application) (3 or 4 items per each of 4 hypothetical applicants= 15 minutes)
- c) Test functionality to download data, view applicants' profiles (for those testing the common application), and upload admissions decisions through an Excel file (15 minutes)
- d) Debrief with users about their experiences with the system and logistics to coordinate participation in the test (1.5 hours)

**FEDERAL COST:** The estimated annual cost to the Federal government is \$15,000, which will be accounted for in the forthcoming information collection request.

## **Explanation:**

This estimate includes the cost to recruit and compensate respondents, conduct testing and debrief with respondents, analyze data, and finalize the OMB package.

# If you are conducting a focus group, survey, or plan to employ statistical methods, please provide answers to the following questions:

# The selection of your targeted respondents

1.	Do you have a customer list or something similar that defines the universe of potentia
	respondents and do you have a sampling plan for selecting from this universe?
	[X] Yes [] No

If the answer is yes, please provide a description of both below (or attach the sampling plan)? If the answer is no, please provide a description of how you plan to identify your potential group of respondents and how you will select them?

College students will be identified through friends and relatives of Mathematica's employees, giving preference to those studying disciplines included in the pilot (mathematics, engineering, geosciences, and biology) and ensuring representation of two- and four-year college students. NSF REU Program Officers and REU leadership groups will be asked to identify current or former REU principal investigators who might be interested in testing the system and provide feedback.

### **Administration of the Instrument**

1.	How will you collect the information? (Check all that apply)
	[X] Web-based or other forms of Social Media
	[X] Telephone
	[ ] In-person
	[ ] Mail
	[ ] Other, Explain
2.	Will interviewers or facilitators be used? [X] Yes [ ] No

Please make sure that all instruments, instructions, and scripts are submitted with the request.