

# The Afterschool Computer Science Educators (ACSE) Project

## STEM Educators Research Component

### The Research Project:

The ACSE project will investigate the potential of STEM programs to impact youths' and after school educators' interests and pursuits in STEM careers. Researchers seek to understand the relationship among educators' backgrounds and interests, STEM program professional development, implementation of the STEM program, and youth outcomes for the STEM program. The research will be conducted at afterschool program sites throughout California and Girls Inc. sites throughout the U.S.

### Participation Criteria:

Afterschool programs interested in participating as an ACSE STEM Site must meet the following criteria:

- There is a stated STEM curriculum rather than random activities.
- There is a minimum of 20 curriculum hours between Summer 2015 and Summer 2016.
- The STEM curriculum occurs between Summer 2015 and Summer 2016. The duration of the STEM curriculum may vary and be repeated. Ideally, the curriculum spans a month or more.
- Each site serves at least 15-20 youth.

### STEM Educator Commitment:

Below is a chart that details the STEM educator's research participation over the **1-year** project. All items below are mandatory and the educator must commit to completing every research task at the appropriate time.

### Research Requirements for Participating ACSE STEM Sites:

<b>Educator Responsibility</b>	<b>Description</b>	<b>Dosage</b>	<b>Minutes</b>
<b>Educator Background Survey</b>	Survey to understand the background and demographic characteristics of the educators	1 time prior to project start	30
<b>Educator Professional Development Follow-up Survey</b>	Survey to understand educator's experience in moving from professional development training on curriculum to implementation of curriculum.	1 time: once near end of curriculum implementation	30
<b>Educator Post Implementation Survey</b>	Survey to better understand the educator's experience of implementing the curriculum.	1 time: post curriculum implementation	30
<b>Attitude Survey</b>	Survey on educator's attitude and experience throughout the 2-year project	2 times: pre and post implementation of STEM curriculum	40 (20 minutes per survey)

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### Research Requirements for subset of 5 from the Participating ACSE STEM Sites:

Educator Responsibility	Description	Dosage	Minutes
<b>*Educator Interviews</b>	Survey to understand the background and demographic characteristics of the educator	2 times	90 (45 minutes per interview)
<b>*Educator Observation</b>	Educators are observed after the implementation of first unit and again near the end of the last unit	2 times	60 (30 minutes each for coordination time)

\*In addition to the requirements mentioned in the chart above.

### Research Requirements for Youth Participants:

Youth Survey	Description	Dosage	Minutes
<b>Attitudes Survey</b>	Survey on youth's attitude and experience throughout the 2-year project	2 times: pre and post implementation of STEM curriculum	140 (70 minutes per survey to administer)

**Total Hours for 25 Facilitators = 130 minutes**

**Total Hours for Subset of 5 Facilitator = 280 minutes**

### Afterschool Organizations Will Receive:

- Monetary award of \$525 per afterschool site.
- Monetary award of \$200 for participating staff facilitator.

### Subset of 5 Afterschool Organizations Will Receive:

- Monetary award of \$725 per afterschool site.
- Monetary award of \$300 for participating staff facilitator.

### Interested in participating?

We are accepting programs on a rolling basis through January 2016.

Complete the online enrollment form: [https://www.surveymonkey.com/s/ACSE\\_STEM\\_site\\_intake](https://www.surveymonkey.com/s/ACSE_STEM_site_intake)