

Instructions[Click here for Instructions](#)**Grant Information**

*Library/Institution	Mission Viejo Library
*Project Title	Pop-Up MakerSpace
*Grant Award Number	LB17040
*Choose grant project start date	2016-08-01
*Choose grant project end date	2017-08-31

CSL LSTA Goal

Please choose one goal in the California State Library LSTA Five Year Plan 2013 - 2017 that best describes the project.

*CSL LSTA Goal	Goal 2: 21st Century Skills
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Project Coordinator

*Project Coordinator First Name	Allen
*Project Coordinator Last Name	Kesinger
*Project Coordinator Title	Teen Services Librarian
*Street Address	100 Civic Center
Address Line 2	Mission Viejo Library
*City	Mission Viejo
*State	California
*Zip Code	92691
*Project Coordinator Phone Number	(949) 830-7100
*Project Director Email Address	akesinger@cityofmissionviejo.org

Grant Monitor

*Grant Monitor Name	Susan Hanks
*Grant Monitor Email Address	Susan.Hanks@library.ca.gov

Library Director

*Library/Institution	Mission Viejo Library
*Library Director First Name	Genesis
*Library Director Last Name	Hansen
*Library Director Title	Director of Library & Cultural Services
*Street Address	100 Civic Center
Address Line 2	Mission Viejo Library
*City	Mission Viejo
*State	California
*Zip Code	92691
*Library Director Phone Number	(949) 830-7100
*Director Email Address	ghansen@cityofmissionviejo.org
*Choose the library/organization type	Public

Project Abstract

Use past tense and write for a general audience by avoiding jargon, acronyms, and abbreviations. Also avoid highly technical project details, numerical lists of project goals, and bullets. If possible, state the "who, what, and why" of the project in the first sentence or two. High-level results can be included, but specific outcomes are more appropriate to Outcomes section below. Ideal length is 90-160 words.

*Project Abstract	Designed for teens age 13 to 17 years old, the library's Teen Pop-Up MakerSpace programs were designed to give young adults a safe and fun place to engage their creative side at no cost to them. These programs were for the benefit of teens who, according to parents polled by the City, specifically requested the city provide safe and healthy activities for our youth and engage the youth of Mission Viejo in creative practice and life skills.
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Additional Materials

You can attach to this report any supporting documents relating to outcomes, outputs or other information that you believe will add to the report.

Additional Materials (attach supporting documents)	
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Websites

If you have any websites that will provide pertinent information about your project or that were created as part of the project, please provide the links below.

URL	
URL	
URL	
URL	
URL	

Financial Data

*Amount of Grant Award	\$9,200
*Amount of Grant Expended	\$9,200
*Amount of Local Match Cash Contribution Expended	\$271
*Amount of In-Kind Expended	\$2,525
*Total Grant Expenditure	\$11,996

IMLS Project Intent

Please choose only ONE selection for the Project Intent that best describes the project.

*Project Intent	Lifelong Learning - Improve users general knowledge and skills
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Subject of Intent

Select no more than TWO subjects.

*Subject of Intent	Science, Technology, Engineering & Math (STEM)
Subject of Intent	

Project Activities

Activities are actions through which the intent or objective of the project is accomplished. There are four activity types (Instruction, Content, Planning & Evaluation, Procurement), each with select methods which describe how you carried out the activity. For this report, please choose all activities/methods that have made a significant commitment to the project (representing 10% of more of project resources.)

Each project must have at least one activity/method associated with it and may have multiple activities/methods. There are 13 possible choices for activities/methods:

- Instruction - Program
- Instruction - Presentation/Performance
- Instruction - Consultation/Drop In/Referral
- Instruction - Other
- Content - Acquisition
- Content - Creation
- Content - Preservation
- Content - Description
- Content - Lending
- Content - Other
- Planning & Evaluation - Prospective
- Planning & Evaluation - Retrospective
- Procurement

On the sections following, select the radio button indicating whether you will or will not be reporting on each specific Activity. If you select Yes, you will be directed to a series of questions about that Activity. If you select No, you will be directed to the next Activity.

Do you have an Instruction-Program Activity to report on?	Yes
Number of Instruction-Program Activities to report on	2
Do you have an Instruction - Presentation/Performance Activity to report on?	No
Do you have an Instruction - Consultation/Drop In/Referral Activity to report on?	No
Do you have an Instruction - Other to report on?	No
Do you have a Content-Acquisition Activity to report on?	No
Do you have a Content-Creation Activity to report on?	No
Do you have a Content-Preservation Activity to report on?	No
Do you have a Content-Description Activity to report on?	No
Do you have a Content-Lending Activity to report on?	No
Do you have a Content-Other Activity to report on?	No
Do you have a Planning & Evaluation - Prospective Activity to report on?	No
Do you have a Planning & Evaluation - Retrospective Activity to report on?	No
Do you have a Procurement Activity to report on?	No

Instruction - Programs

A type of instruction mode involving formal interaction and active user engagement.

Activity Title	Teen Pop-Up MakerSpace
Brief Activity Abstract (Ideal length is 90-160 words.)	The intention behind the activities associated with the Teen Pop-Up MakerSpace was to create craft projects to be built using STEAM concepts. Through a series of six programs, teens made greeting cards and holiday-themed houses using LEDs, created artwork using a robot built from household items, built flashlights using graphite, make unique textile designs with sunprinting, experiment with circuits using LittleBits, and using TinkerCAD to create 3D models to print them out with a 3D printer. Crafts were prepared ahead of the programs and teen volunteers were used to put together kits from the supplies that were ordered. Instruction handouts were made for those wishing to work independently, but myself and volunteers were on hand to assist with the projects and showcase the science behind each activity.
Delivery format	In person
Other, please describe	
Session length - number of minutes	120
Number of sessions in program	1
Average number in attendance per session	11
Total number of times program was administered	6
Total number of program attendees	65

What type of partner organizations were involved with this activity?

Libraries	Yes
Historical Societies or Organizations	
Museums	
Archives	
Cultural Heritage Organizations (multi-type)	
Preschools	
Schools	
Adult Education	
Human Services Organizations	
Other	Yes

What was the legal structure of the partner organization?

Federal government	
State government	
Local government (excludes school districts)	Yes
School district	
Non profit	
Private sector	
Tribe	

Is the activity directed at?	General or targeted population
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Geographic community of the targeted group	Urban	
	Suburban	Yes
	Rural	

Target Age Group	All ages	
	0-5 years	
	6-12 years	
	13-17 years	Yes
	18-25 years	
	26-49 years	
	50-59 years	
	60-69 years	
70+ years		

Is this activity targeted at specific economic situations?	Not applicable
Is this activity targeted at specific ethnic or minority populations?	Not applicable
Is this activity directed at families?	No
Is the activity directed at inter-generational groups?	No
Is the activity directed at immigrants/refugees?	No
Is the activity directed at those with disabilities?	No
Is the activity directed at those with limited functional literacy or information skills?	No
Is the activity directed at groups that fall into a category not already captured? If yes, please provide brief detail.	No

Is this activity statewide?	No
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Locations	Institution Name	Mission Viejo Library
	Street Address	100 Civic Center
	City	Mission Viejo
	State	California
	Zip Code	92691
	Institution Name	
	Street Address	
	City	
	State	
	Zip Code	
	Institution Name	
	Street Address	
	City	
	State	
Zip Code		

MISSION VIEJO LIBRARY 2016/2017

Institution Name	
Street Address	
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Zip Code	
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MISSION VIEJO LIBRARY 2016/2017

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City	
State	
Zip Code	
Institution Name	
Street Address	
City	
State	
Zip Code	

Where did the activities take place? (Enter Number)	Public libraries	1
	Academic libraries	
	State Library	
	Consortia	
	Special libraries	
	School libraries	
	Other	1

Instruction - Programs	Activity Title	Teen Pop-Up MakerSpace: Arts Alive
	Brief Activity Abstract (Ideal length is 90-160 words.)	As part of my project pitch, I had indicated that one of the Teen Pop-Up MakerSpace programs would be held at the Arts Alive Festival run by the City of Mission Viejo's Cultural Arts department. The library was given a space at the event to offer a craft, one that was designed to tie into the MakerSpace programs held during the year. Participants of all ages learned how LEDs worked as they made LED Throwies.
	Delivery format	In person
	Other, please describe	
	Session length - number of minutes	180
	Number of sessions in program	1
	Average number in attendance per session	200
	Total number of times program was administered	1
Total number of program attendees	200	

What type of partner organizations were involved with this activity?	Libraries	Yes
	Historical Societies or Organizations	
	Museums	
	Archives	

Cultural Heritage Organizations (multi-type)	
Preschools	
Schools	
Adult Education	
Human Services Organizations	
Other	

What was the legal structure of the partner organization?	Federal government	
	State government	
	Local government (excludes school districts)	Yes
	School district	
	Non profit	
	Private sector	
	Tribe	

Is the activity directed at?	General or targeted population
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Geographic community of the targeted group	Urban	
	Suburban	Yes
	Rural	

Target Age Group	All ages	Yes
	0-5 years	
	6-12 years	
	13-17 years	
	18-25 years	
	26-49 years	
	50-59 years	
	60-69 years	
70+ years		

Is this activity targeted at specific economic situations?	Not applicable
Is this activity targeted at specific ethnic or minority populations?	Not applicable
Is this activity directed at families?	No
Is the activity directed at inter-generational groups?	No
Is the activity directed at immigrants/refugees?	No
Is the activity directed at those with disabilities?	No
Is the activity directed at those with limited functional literacy or information skills?	No
Is the activity directed at groups that fall into a category not already captured? If	No

MISSION VIEJO LIBRARY 2016/2017

yes, please provide brief detail.	
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Is this activity statewide?	No
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Locations

Institution Name	Norman P. Murray
Street Address	24932 Veterans Way
City	Mission Viejo
State	California
Zip Code	92692
Institution Name	
Street Address	
City	
State	
Zip Code	
Institution Name	
Street Address	
City	
State	
Zip Code	
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MISSION VIEJO LIBRARY 2016/2017

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Institution Name	
Street Address	
City	
State	
Zip Code	

Where did the activities take place? (Enter Number)

Public libraries	
Academic libraries	
State Library	
Consortia	
Special libraries	
School libraries	
Other	1

Project Outcomes

<p>List any important outcomes or findings from your project. What changes occurred in your target audience's skills, knowledge, behavior, attitude, and/or status/life condition?</p>	<p>For each MakerSpace program, participants were asked to complete a short, anonymous survey designed to measure their interest in STEAM activities before and after the program. They were asked to gauge their interest using a 5 point scale, indicating lowest interest and indicating highest interest. Out of the 65 teens who participated in the library MakerSpace events (Arts Alive participants were not surveyed), the most interesting results follow: 11 participants indicated a 1 point increase in interest in STEAM after the program (this includes those who marked a "3" before and a "4" after and those that marked a "4" before and a "5" after) 8 participants indicated a 2 point increase in interest in STEAM after the program (this includes those who marked a "2" before and a "4" after and a "3" before and a "5" after). 33 participants indicated no change in interest in STEAM after the program (this includes those who marked a "4" or a "5" before and after the event). 1 participant noted a one point decrease in their interest in STEAM. There was no opportunity to follow up on whether or not they were dissatisfied with the project or if the score was given in error. The survey also asked participants how often they visit the library and whether or not they had library cards. These questions were important to me because in my project proposal, I wanted the MakerSpace program to help bring in teens that may not typically use the library. Of the teens surveyed, every one of them had a library card (either their own or through their parents) and indicated that they visited the library at least once a week.</p>
<p>Briefly describe the importance of the outcomes or findings (Ideal length is 90-160 words.)</p>	<p>While I am happy with the number of participants that indicated an increased interest in STEAM, the large number of those that didn't was surprising. What this tells me is that a portion of the teen demographic of Mission Viejo is already keyed into STEAM, be it through school or personal interests. Indeed, several teens (and their parents) shared their interest, involvement and personal projects.</p>

What methods were used to determine your outcomes or findings.

Choose all that apply.

Survey	Yes
Review of Administrative Data	
Interview/Focus Group	
Participant Observation	
Tests	
Other	

Based on outputs, outcomes and/or other results, explain any significant lessons learned from these findings for either the State Library or others in the library field.

My vision for the grant was to provide teens 13 to 17 years old with STEAM-based programs that appealed to their creativity. What was immediately apparent, however, was that the programs attracted younger, Middle School students. This wasn't a problem, although some needed more hands on assistance than others, but rather a result I honestly didn't expect. I advertised the MakerSpace events with librarians at three local high schools and didn't consider the possibility of younger students participating. My additional advertising through the City's blog and library event display may account for those parents that brought their younger children. Holding the programs on a weekday evening may have been a factor, as older teens may have opted to stay home to study or be with friends or family. I also learned that our 3D printer was incredibly popular with young children and I will develop activities and programs in the future that take advantage of this interest.

Project Sustainability

*Do you anticipate continuing this project after the current reporting period ends?	Yes
Please describe why (Ideal length is 90-160 words.)	Based on the survey results and discussions with parents present for the programs, there is significant interest in these MakerSpace-themed library programs. In fact, one routine question asked by parents was, "Are you planning to do more of these?" The young adults (and tweens) that also expressed interest in more hands-on time with the 3D printer, opting to design something themselves rather than pick from a list of pre-selected designs.
*Do you anticipate any changes in the level of effort?	Yes
Please briefly describe any changes in the level of effort. Include information as to whether you intend to use LSTA, local or in-kind funds. (Ideal length is 90-160 words.)	One key area I would put more effort into is advertising. My original advertising plan involved printing out flyers the school libraries in the area, posts on the City of Mission Viejo's news website, and developing visual displays for the library's digital carousel. Future programs will continue to use these methods of advertising. However, I plan to contact ASB groups at each school to assist with promoting. Our incoming Teen Advisory Board will be another resource to help promote and offer feedback on program projects.
*Do you anticipate any changes in the project's scope?	Yes
Please briefly describe the changes in the project's scope (Ideal length is 90-160 words.)	The most significant change in scope would be more hands on time with the 3D printer. For each program, participants were enamored with the MakerBot Replicator. They were less interested in choosing from a list of pre-selected designs, which was the original plan for the machine in my grant proposal, and wanted to print out their own sculpts and designs. Since the debut of the 3D printer, library staff has been inundated with questions and requests from patrons about whether or not they could use it. Future MakerSpace programs will find ways to incorporate the machine and patron's interactions with it.
*Do you anticipate any other changes in the project?	No
Please briefly describe the changes in the project (Ideal length is 90-160 words.)	

Exemplary Project

*Is this an exemplary project?	No
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Comments

Project Tags (Enter 3 words separated by commas)	STEAM, Science, Tecnology
Project Comments	
Final Grant Report Comments	

Submittal Instructions

[Instructions](#)

1. After you have completed the report, click the SUBMIT/LOCK button. You will receive a submission confirmation email.
2. After the report has been submitted online, an email will be sent to the grant monitor with a link to the report. The grant monitor will review the report. When the grant monitor approves the report for submission to the State Library, the submitter, the State Library, and the grant monitor will receive an email with a link to the report. (A PDF copy of the report will not be attached to the email)
3. When the email is received, follow the link provided to print a PDF copy of the report. Choose "Print and Save PDF". Please choose the "landscape" option for printing.
4. Have the Library Director sign (in the box to the right of the certification statement on the form) in blue ink.
5. Send the original and one copy as noted below within 7 calendar days of receiving the email.

By Mail:

California State Library
P.O. Box 942837
Sacramento, CA 94237-0001
Attention: Fiscal Office - LSTA

By Non USPS Delivery:

California State Library
900 N Street, 4th Floor
Sacramento, CA 95814-4813
Attention: Fiscal Office - LSTA

Should you have further questions, please contact:

Mickie Potter, LSTA Analyst
California State Library, LDS
916.653.4730
mickie.potter@library.ca.gov

Submitter Information

Complete the section below with information about the individual filling out the online report.

*Submitter First Name	Allen
*Submitter Last Name	Kesinger
*Submitter Phone Number	(949) 830-7100
*Submitter Email Address	akesinger@cityofmissionviejo.org

Certification

*Library/Institution Director Name	Genesis Hansen
*Library/Institution Director Title	Director of Library & Cultural Services
*Date	2017-08-30
*Do you certify that all the information provided herein is accurate to the best of your knowledge?	Yes