1. Assessment Plan - Three Column



PIE - Natural Sciences: Makerspace Unit

Unit Goals	Resources Needed	1. Where We Make an Impact: Closing the
onn oouis	Resources Needed	Loop on Goals and Resources
Facilities - Develop an outdoor	Request - Partial Funding Requested	Reporting Year: 2018-19
fabrication area to serve the needs of		% Completed: 25
members and non-credit program	*Describe Plans & Activities	The overhead steel structure which will support the roof
participants, providing a working	Supported (Justification of Need):	has been completed. The steel for the actual roof has been
location for equipment (already in	The makerspace will collaborate	purchased. The roofing steel needs to be lifted to the height
MakerSpace possession) which is too	with architecture, engineering and	of the structure and fastened securely. The fasteners have
large or has ventilation requirements	construction engineering technology	been purchased. The PE to do the work has been hired and
that cannot easily be accommodated inside the MakerSpace. In addition,	to design and build an outdoor building area on the west side of	will be available in June to do the work.
re-configure the existing layout inside		We need to find a source for very inexpensive or free chain-
the Space to make equipment usage	current makerspace activities, and	link fencing, poles for that fencing and a gate, plus more
more effective and to increase the	community ed programs. It will	cinder blocks and mortar for the side wall (to keep mud
margin of safety. Install outdoor	provide a space to locate the 4	from flowing into the work area).
lighting to support outdoor build	donated Industrial lathes to support	
area. Finally, create outdoor storage	the contract education water district	The machines and equipment which will be used in the new
for larger-scale materials.	apprentice program. It will also	outdoor build area have been acquired, will need to be
	support the use of the sand blast	moved with a forklift when the structure is completed. They
Leveraging our existing space more	cabinet, compressor, grinding table,	may need some maintenance because they have been
effectively is key to achieving our	kiln, potters wheel, oven and paint	stored outside under tarps for up to a year. (06/03/2019)
project goals. We have an	booth, plus other equipment as	
opportunity to work with contract	appropriate.	
education to provide a high-value		
welding and manufacturing training	The one-time funds will provide used	
program, driven by our welding	chain-link fencing material, poles for	
faculty, that will serve as a pipeline	chain-link fencing, a gate and some	
for our students into high paying	more cinder blocks to enable	
technical jobs. The construction of	building a wall on one side of the	
the outdoor building area is directly	outdoor area.	
tied to one of our core goals of	*Lead: Mason What would success look like and	
supporting contract education	what would success look like and	

Unit Goals

Resources Needed

1. Where We Make an Impact: Closing the Loop on Goals and Resources

programs. Without this area, Mt. SAC will lose the opportunity to offer this program. Status: Active Goal Year(s): 2018-19, 2019-20 Date Goal Entered (Optional): 05/31/2018 how would you measure it?: The outdoor build area would be constructed, members could use the equipment there and programs could schedule activities. In addition, the equipment in the outdoor area will be secure and safe from theft or unauthorized use.

Type of Request: FACILITIES: This section includes minor building improvement projects and alterations to specific rooms or operational areas.

Planning Unit Priority: High

Request - No Funding Requested -

Reconfigure the existing makerspace layout.

*Describe Plans & Activities Supported (Justification of Need):

Apply best practices to machine layout, and apply experience of members in makerspace. Further define safe clearance zones around each machine with safety stripes. These activities support safe use of the makerspace facility by current and future users.

*Lead: Mason

What would success look like and how would you measure it?:

Equipment is more safely and efficiently arranged; the space and safe clearance zones are clearly delineated for each.

Type of Request: FACILITIES: This section includes minor building improvement projects and alterations to specific rooms or operational areas.

Planning Unit Priority: High

Request - Partial Funding Requested

- Create three-wall (with roof) outdoor material storage area in the eastern area of the makerspace yard, for construction materials to support projects in the space.

*Describe Plans & Activities

Supported (Justification of Need):

Current storage space is up a narrow non-ada compliant staircase which is not accessible to students. Creating an outdoor storage structure would provide safe and convenient storage of project materials (including larger items) and allow the indoor space to be used for makerspace activities. ***Lead:** Mason

What would success look like and how would you measure it?:

Construction of an outdoor storage yard in the front (eastern) portion of the makerspace.

Type of Request: FACILITIES: This section includes minor building improvement projects and alterations to specific rooms or operational areas.

Planning Unit Priority: Medium Request - Partial Funding Requested

- Install outdoor lighting for the new outdoor work area (west side of F7) to support making and learning activities there.

*Describe Plans & Activities Supported (Justification of Need):

There will be high utilization of the new outdoor work area in the evening hours, by individuals and by classes. There is very little lighting in this location, which means that

Unit Goals	Resources Needed	1. Where We Make an Impact: Closing the Loop on Goals and Resources	
	students can choose to operate tools with insufficient light.		
	Circuits must be connected to unused circuits in one of the electrical panels, probably via a sub- panel located in the outdoor work area. Wires in weatherproof conduits must be run to weather- proof outlets, including at least two 220V outlets and at least eight 110V outlets. *Lead: Mason What would success look like and how would you measure it?: Outdoor lighting is installed on the western side of building F7 to provide lighting for the outdoor work area. ? Type of Request: FACILITIES: This section includes minor building improvement projects and alterations to specific rooms or operational areas. Planning Unit Priority: High		
 Digital Badging - Create and award digital badges to members. Badges enable recipients to validate experience and can be posted on jobsearch sites or listed on CVs, helping the recipient to prove qualifications for work, internship or other aspiration. The creation of digital badges ties directly to our core goal of developing employable skills by providing a clear indicator of student accomplishment using a particular tool or technique. 	Report directly on Goal	 Reporting Year: 2018-19 % Completed: 25 We have an account with Badgr, a free online electronic badging company, and have awarded almost 20 badges. With a little graphics design, this is a simple process. We currently are able to track how many hours each member uses each machine using our unique RFID system, and so far have awarded badges based on either workshop attendance or hours of experience. However, our corporate and manufacturing contacts tell us that badges awarded for strict number of hours of experience are not preferred, but badges awarded based on 	
Status: Active 12/01/2020	Gene	assessments of skill and knowledge are preferred. We are erated by Nuventive Improve	Page 1,132 of 1,424

Column Construction Loop on Goals and Resources Cool Year(s): 2018-19, 2019-20 Report directly on Goal Setup to provide the former but util we have more knowledgeable faculty available on a periodic basis (perhaps twice a month) for assessment appointments, we do not have a mechanism for skill/knowledge badges. (06/03/2019) Request - Partial Funding Requested - initial purchase of badging equipment is grant funded. However, repairs and supplies will incur some ongoing cost. Both technical, administrative and support staff is needed to oversee the badging program. Initially a half time technican and 1/4 time support traffs medded to oversee the badging program. Initially as half time technican and 1/4 time support staff is needed to oversee the badging program. Initially as half time technican and 1/4 time support staffs in bable recipients to validate experience and can be posted on job-search states of listed on CVs, helping the recipient to prove qualifications for work, intenship or other aspiration. *Less: Mason / Rosiof What would success look bike and how would you measure it? Digital badges era awarded to methers. Type of Request: STAFFING: Requests for permanent employee positions or temporary/hourly employees. Public Committee Exampling the Resource Committee Exampling the Provide the Provide the Staff	Unit Goals	Resources Needed	1. Where We Make an Impact: Closing the
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Planning Unit Priority: High			
	Advisory Committee - Formalize the	Report directly on Goal	Reporting Year: 2018-19

role of an advisory committee to

% Completed: 75 Generated by Nuventive Improve

Unit Goals

core goals:

programs

community

Status: Active

05/31/2018

support the MakerSpace with input

from faculty, staff, administrators,

The support of an advisory committee

students and the community.

ties to all of our core goals by

providing regular input from our

campus and external mentors, to

*Being a hub for project-based

*Developing employable skills *Enabling collaboration in the

creation of tangible things

learning in instructional programs

*Support contract ed and non-credit

*Place to practice technical skills

*Raise profile of Mt. SAC in the

Goal Year(s): 2018-19, 2019-20

Date Goal Entered (Optional):

*Support entrepreneurship.

better facilitate meeting each of our

Resources Needed

Report directly on Goal

1. Where We Make an Impact: Closing the Loop on Goals and Resources

Our original Advisory Team has consisted of Mt. SAC faculty, staff, administrators, industry partners and fellow makerspace organizers. We also have had a student Advisory Team. Both were instrumental in setting up the MakerSpace, reaching out to the initial contacts, getting the "feel" of the place right, setting policies and procedures in place, especially with regards to safety.

As time has passed, attendance by each team has shrunk and members appear to have less enthusiasm for the dayto-day questions than they did for the excitement of a new beginning.

The MakerSpace Team needs to re-assess the qualities we want for our Advisory Team and actively seek out members who have those qualities and who are interested in supporting day-to-day questions, and who will step up to help us on a regular basis. We plan to work on this and to approach both current Advisory Team members and potential new members in order to fully staff the Advisory Team. The balance between industry, makerspaces, faculty, staff and administrators is critical. It is likely that the student Advisory Team will remain separate. (06/03/2019)

Request - Partial Funding Requested

- Ongoing campus support for meetings between campus faculty, staff, administrators, students, interested community members and employers to support and enhance the community of practice at the makerspace. Develop and market the space to recruit additional support.

*Describe Plans & Activities Supported (Justification of Need):

An advisory committee to support the MakerSpace with input from faculty, staff, administrators, students and the community, including employers

	*Lead: Mason / Arthur What would success look like and how would you measure it?: An active makerspace advisory committee which meets at least three times per school year. Type of Request: OTHER OPERATING EXPENSES AND SERVICES: Requests for contracted, legal/ audit, personal/ consultant, rent/ leases, repairs/ maintenance, and other misc. services. May also include request for travel and conference that does not require the assistance of POD. Planning Unit Priority: Medium	
Publicity - Promote the MakerSpace activities including monthly community events, the art show, open houses, competitions and other special events or projects. The MakerSpace has put on over a dozen community events in 2017/18 and over 20 community events in 2018/19, including open houses, meetups, art shows, robot fighting competitions etc which have been attended by students, faculty, staff, administrators and community	Report directly on Goal	 Reporting Year: 2018-19 % Completed: 75 We currently promote our activities through Facebook (most posts reach 300-400 people), Google Business (each month we get over 2000 views), email lists (one for members, one for people interested and one for Advisory Team), plus paper flyers around Mt. SAC campus and placed in local senior centers, local libraries and local coffee houses. We have a strong and recognizable brand, created originally by Mt. SAC Marketing Dept, and have carried that through onto all of the marketing that we do.
members. Our community members serve as advocates to raise the profile of Mt. SAC. Status: Active Goal Year(s): 2018-19, 2019-20 Date Goal Entered (Optional): 05/31/2018		We are at the point where we need a greater reach, both into the community and into parts of the student, faculty and staff population that we have not yet reached. The Marketing Dept is likely to have resources for both of those reaches, perhaps including local newspapers, local community blogs or web pages, student activities or locations on campus where students are likely to read about our activities. (06/03/2019)

1. Where We Make an Impact: Closing the

Loop on Goals and Resources

Request - Partial Funding Requested

- Work with marketing department

Resources Needed

Unit Goals

to develop flyers, banners, signs and graphical assets to support the promotion of the maker space. *Describe Plans & Activities Supported (Justification of Need):

The makerspace works with both the Mt SAC community and the external community to promote collaboration between students, faculty, staff and community members. There are events held at least monthly to recruit new interest in the space, and occasional special events such as the art exhibit.

*Lead: Arthur

What would success look like and how would you measure it?:

Promotional materials generated to support recruiting membership to the space.

Type of Request: MARKETING: Requests for services in the areas of graphic design, news, and photography, posting information, communication and social media. Planning Unit Priority: Medium

Request - No Funding Requested -

Work with Marketing, IT and interested people and groups from the Mt. SAC campus and from the community, to reach potential new members with promotional materials. Reach out to employers, members of related groups and encourage existing members to bring friends and other interested people.

*Describe Plans & Activities Supported (Justification of Need): The makerspace works with both the

Unit	Goals	
Unit	Gouis	

Resources Needed

1. Where We Make an Impact: Closing the Loop on Goals and Resources

Mt SAC community and the external community to promote collaboration between students, faculty, staff and community members. There are monthly events to recruit new interest in the space, and occasional special events such as the art exhibit.

Distribution of marketing and promotional materials via electronic means, including email, social media and blogs, and other means. Also distribution of printed materials, especially at local locations including libraries and senior centers.

*Lead: Arthur

What would success look like and how would you measure it?:

Promotional materials are distributed to new audiences, producing firsttime visits to makerspace, resulting in new members

Type of Request: MARKETING:

Requests for services in the areas of graphic design, news, and photography, posting information, communication and social media. **Planning Unit Priority:** Medium

Internships - Promote appropriate internships and the establishment of a funded Internship Presentation Day to connect current interns and employers with future interns and employers.

Supporting internships fits with our core goal of promoting employability of our students.

Request - Partial Funding Requested

- Marketing and campus communication. Mt. SAC has a number of resources to support students completing internships. The MakerSpace will help to connect students with existing opportunities and provide a resource for students to develop useful skills for their internship and for future success in

Unit Goals

Resources Needed

their lives. Will encourage non-

participating students to find an

1. Where We Make an Impact: Closing the Loop on Goals and Resources

Status: Active Goal Year(s): 2018-19, 2019-20 Date Goal Entered (Optional): 05/31/2018

internship, and will encourage local employers to offer internships to Mt. SAC students. *Describe Plans & Activities Supported (Justification of Need): Annual internship support conference to bring together employers, students and internship completes in addition to campus community. *Lead: Arthur What would success look like and how would you measure it?: Successful internship presentation conference. Type of Request: MARKETING: Requests for services in the areas of graphic design, news, and photography, posting information, communication and social media. Planning Unit Priority: Medium **Request - Full Funding Requested -Refreshments for Internship** Presentation Day event *Describe Plans & Activities Supported (Justification of Need): Refreshments for participants and audience at Internship Participation Day, an annual internship support conference to bring together employers, students and internship completes in addition to campus community. *Lead: Arthur What would success look like and

how would you measure it?:

Internship Presentation Day has many happy and gratified participants, both

Resources Needed

1. Where We Make an Impact: Closing the Loop on Goals and Resources

presenters and audience. Type of Request: OTHER OPERATING **EXPENSES AND SERVICES: Requests** for contracted, legal/ audit, personal/ consultant, rent/ leases, repairs/ maintenance, and other misc. services. May also include request for travel and conference that does not require the assistance of POD. Planning Unit Priority: Medium

Mentorship - Promote mentor relationships between experienced and new members, between entrepreneurial experts and makers wanting to sell products or services, and between employers and potential Poly and community members employees or interns.

The MakerSpace has a core goal to enable collaboration in the creation of tangible things, but in the process of working together there are countless side benefits to developing the soft skills that our employers request.

Status: Active Goal Year(s): 2018-19, 2019-20 Date Goal Entered (Optional): 05/31/2018

Request - No Funding Requested -

Use MakerSpace facilities to support collaborative events with Cal Poly Pomona ILab and/or other local universities to bring Mt. SAC, Cal together to support regional entrepreneurial activity. *Describe Plans & Activities Supported (Justification of Need): Co-host a collaborative event with llab in the fall. *Lead: Arthur What would success look like and how would you measure it?: Co-host collaborative meeting Type of Request: OTHER OPERATING **EXPENSES AND SERVICES: Requests** for contracted, legal/ audit, personal/ consultant, rent/leases, repairs/ maintenance, and other misc. services. May also include request for travel and conference that does not require the assistance of POD. Planning Unit Priority: Medium

Curriculum Integration - Continue outreach to faculty through

professional development and visits

Report directly on Goal

Reporting Year: 2018-19 % Completed: 50 Over the year-and-a-half the MakerSpace has been open,

12/01/2020

Unit Goals

Resources Needed

to department meetings. Publicize **Re** successful models.

Report directly on Goal

The MakerSpace is the hub for project-based learning in instructional programs. The MakerSpace has already had a transformative effect on curriculum in engineering, engineering technology and architecture and is seeing integration into curriculum in diverse areas such as music, oceanography and industrial design. Status: Active Goal Year(s): 2018-19, 2019-20 Date Goal Entered (Optional): 05/31/2018

1. Where We Make an Impact: Closing the Loop on Goals and Resources

we have had 147 faculty from nine different divisions spend over 4100 hours in the MakerSpace. 63 classes have visited the MakerSpace, some just touring and some beginning to work on projects at that time.

We have held one CPD Day workshop, three FLEX Day workshops and two FLEX Day open houses. We have again applied for a FLEX Day and a CPD workshop for fall 2019. In addition, we held a two-meeting POD session for faculty interested in the MakerSpace in fall 2018.

Some faculty members have begun to formally integrate makerspace into their curriculum, but most are including it informally. We are encouraging faculty members and departments to revise their curricula and to submit the changes to the curriculum committee, in order to facilitate hands-on project-based learning for as many students as possible.

The MakerSpace Team has traditionally used departmental meetings as a vehicle for encouraging participation, but we may need to expand our reach by presenting at Faculty Senate or other forums where faculty members exchange ideas. We are exploring our options for outreach to faculty. (06/03/2019)

Request - No Funding Requested -

Ongoing professional development presentations at Flex days, for the new faculty seminar and other interested staff and faculty groups. ***Describe Plans & Activities Supported (Justification of Need):** Host makerspace orientations and curriculum workshops as professional development activities to support faculty and staff.

*Lead: Mason

What would success look like and

how would you measure it?: Multiple

professional development activities

Unit Goals	Resources Needed	1. Where We Make an Impact: Closing the
onit oodis		Loop on Goals and Resources
	hosted in the Makespace to support	
	faculty use of makerspace resources	
	in their classrooms and staff use to	
	support their areas.	
	Type of Request: PROFESSIONAL &	
	ORGANIZATION DEVELOPMENT (POD): Requests that provide	
	professional learning opportunities	
	for Mt. SAC employees.	
	Planning Unit Priority: High	
	One-Time Funding Requested (if	
	applicable): 0	
	On-Going Funding Requested (if	
	applicable): 0	
	Request - No Funding Requested -	
	Ongoing visitations to department	
	and division meetings to support	
	faculty curriculum integration into the makerspace.	
	*Describe Plans & Activities	
	Supported (Justification of Need):	
	Makerspace lead faculty member	
	will visit department meetings across	
	campus to share how the	
	makerspace can be useful to	
	programs.	
	*Lead: Mason	
	What would success look like and how would you measure it?: Visits to	
	department meetings increase	
	engagement of campus faculty with	
	the makerspace.	
	Type of Request: OTHER OPERATING	
	EXPENSES AND SERVICES: Requests	
	for contracted, legal/ audit, personal/	
	consultant, rent/ leases, repairs/	
	maintenance, and other misc.	
	services. May also include request for	
	travel and conference that does not	
	require the assistance of POD.	

Unit Goals	Resources Needed	1. Where We Make an Impact: Closing the
onn douis	nesources needed	Loop on Goals and Resources
	Planning Unit Priority: High One-Time Funding Requested (if applicable): 0 On-Going Funding Requested (if applicable): 0	
Data Collection - Track and analyze the membership usage of the space, detailed information about what tools and equipment is used and by what types of users. Data collection serves to inform all of our goals by providing the critical information about accomplishments at any given time, and how best to move forward to address our core goals. Status: Active Goal Year(s): 2018-19, 2019-20 Date Goal Entered (Optional): 05/31/2018	Report directly on Goal	 Reporting Year: 2018-19 % Completed: 50 We now have extremely detailed tracking of each member's time in the MakerSpace and time spent on each machine, thanks to our unique RFID card reading system, which is installed on many of our machines. Thanks to our robust login/logout system, we also have a detailed profile of which members come in at which times, how often and whether they come in with a club or as an individual. What we would like to gather in addition, is data about the students as far as membership in Equity classes, persistence in their class sequences, how many complete a degree, certificate or transfer etc. That data can only be acquired by way of the Research Dept. We are interested in this data so we can apply for Equity funding when they again are accepting applications, and so that we can contribute to educational research by demonstrating whether there is a relationship between amount of time spent doing hands-on learning and progression/completion. In addition, the data will help us to target future workshops or short-term classes to the needs and wants of our members. (06/03/2019)
	Request - Partial Funding Requested - Ongoing IT support to integrate the Mountie MakerSpace data collection	

with appropriate methods which

allow collection of apportionment.

*Describe Plans & Activities

Supported (Justification of Need): In

order to collect apportionment, data collection for credit and non-credit students working in the makerspace must fit a particular format. The data must be sent to IT at least once per day

*Lead: Mason / Roslof

What would success look like and how would you measure it?:

Effective data collection, formatting and delivery to IT which enables collection of apportionment.

Type of Request: IT SUPPORT: Requests for projects related to the implementation, integration, application, delivery, and support of information and instructional

technologies.

Planning Unit Priority: High

Request - Full Funding Requested -

Ongoing internet backbone services *Describe Plans & Activities

Supported (Justification of Need):

Since the MakerSpace relies on both on campus and off campus network infrastructure, reliable internet access is a key component to

accurate tracking.

*Lead: Mason / Roslof

What would success look like and

how would you measure it?:

Continued reliable internet connection

Planning Unit Priority: Medium One-Time Funding Requested (if applicable): 0 On-Going Funding Requested (if applicable): 0

Request - Full Funding Requested -

Information about MakerSpace members who are credit or noncredit students

*Describe Plans & Activities Supported (Justification of Need): In order to qualify for grants such as Equity funding, Hispanic-Serving Institution funding etc, MakerSpace needs to be able to identify members who meet the standards for those types of funding. In addition, it will be productive and informative to attempt to correlate student success/ persistence with hours spent in the MakerSpace. In both cases, Research staff are the only people who can provide these pieces of data.

*Lead: Arthur

What would success look like and how would you measure it?:

MakerSpace would have data about its student (credit and non-credit) members, and thus could provide documentation of qualification for Equity, HSI and other funding, and can calculate correlation between student success/ persistence and time spend in the MakerSpace. **Type of Request:** RESEARCH SUPPORT: Evaluating or researching the impact of your educational intervention (cross sectional, cohort tracking).

Planning Unit Priority: Medium

Institutionalization - Plan for the

MakerSpace and its associated costs to be supported on a continuing basis once grant funding ends in May 2019.

Report directly on Goal

Reporting Year: 2018-19 % Completed: 50

Although the MakerSpace does not yet have a steady and reliable stream of funding for the future, the MakerSpace

Unit Goals

Resources Needed

1. Where We Make an Impact: Closing the Loop on Goals and Resources

	Loop on Oouis and Resources
Report directly on Goal With the CCCMaker grant ending in	Team has applied for: * an NSF AISL grant, applications are still being processed, 5
May 2019, it is critical that the	year grant will fully fund the MakerSpace
MakerSpace find other funding	* Strong Workforce through the Engineering Dept, will fund
sources in order to continue to serve	approx 2-3 student workers in the MakerSpace
as a hub for project-based learning on	* Associated Students grant for supplies to be provided for
campus.	student work
	* Immediate Needs funds, granted for June, August and
Like the library, the MakerSpace has a	September 2019, minimal staffing and reduced activities
broad appeal across the different	
campus populations. 2017/18 saw	The Team is in-process, working closely with Madelyn
more than 600 members join the	Arballo and Tami Pearce from Community Ed and working
space and contribute nearly 10,000	with Chuong Tran from IT and his team, to setup the
hours. 2018/19 saw a total of almost	framework which will enable the MakerSpace to collect
1000 active members accumulating	apportionment. Since we had to create a new class for the
an additional 20,000 hours. This level	MakerSpace, and that class has to go through the
of utilization shows that the	Curriculum Committee, we do not expect to be able to
MakerSpace is an important part of	collect apportionment until January 2020 at the very
the campus community.	earliest.
As an important resource for students	We will also apply for:
to focus on project-based learning	* Equity Money, when the application period re-opens
through hands-on experiences, the	* Regional Strong Workforce, we will attempt to propagate
MakerSpace is unique, valuable and	our data collection and RFID system to other community
provides services and equipment that	colleges with makerspaces or machine shops. We have
are available nowhere else.	already discussed this with many of the other colleges
Status: Active	* there is an NSF HSI grant which the Natural Sciences
Goal Year(s): 2018-19, 2019-20	Division is considering applying for; if so we will participate
Date Goal Entered (Optional):	in that application
05/31/2018	
	Finally, we are working with the Contract Ed department to
	get some workshops or short-term classes setup in the
	MakerSpace, probably for Fall or Winter 2019 (we have no
	AC so way too hot in the summer) (06/03/2019)

Request - Full Funding Requested -Full-Time Technician support *Describe Plans & Activities Supported (Justification of Need): In

order for the MakerSpace to stay open as the grant ends in May 2019,

the staff who supervise the space need to be funded from some other source. We have identified equity. strong workforce and general campus funds as potential funding sources to support the ongoing mission of the Mountie MakerSpace. The full-time technician will provide about 35 hours of open time in the MakerSpace (one hour of prep or cleanup per day for 5 days) The parttime technician will provide about 15-18 hours of open time in addition, perhaps with some overlap for especially busy times (such as when two classes will be working in the MakerSpace or other special events) Optimally the MakerSpace will be open 50 hours/week including some daytime hours.

Technician will:

*research new equipment and the appropriateness and cost of acquisition

*plan any changes to the layout of the MakerSpace to facilitate safer, easier and more effective use *do the re-organization

* implement safety procedures and policies, and modify as needed *plan activities and then manage student workers who clean, install and repair items in the building *assemble hardware for machines *manage, maintain and/or build software and database to monitor, measure and record the use of machines with RFID cards *maintain, adjust and execute a way

Unit Coals	Pasaursas Naadad	1. Where We Make an Impact: Closing the
	nesources meeded	Loop on Goals and Resources
	Resources Needed for RFID cards to be personalized by staff as needed by members, including a way to label them individually *implement the database to track machine usage both for MakerSpace records and for badging *work with Lead Faculty and Director to activate new badges and setup awarding system for members *update current member database to reflect new requirements for reporting *repair and maintain existing equipment, provide safety upgrades and write use and maintenance memos *install and service newly acquired equipment, provide training for staff and write use and maintenance memos *plan for activities, including monthly meetup activities, cooperative workshops, Regional Meetings, CalPoly iLab workshops, Open House activities, Flex Day and new faculty tour activities, robot fighting competitions, other activities TBD including class visits *present information at Steering Committee meetings, other special workshops or meetings including Flex Day, new Faculty Tour, Regional Meetings and possibly Board meatings (Trustore and (or	· -
I	meetings (Trustees and/or Foundation) if appropriate *plan for and implement monthly	
	maintenance for each piece of	

Unit Goals	Resources Needed	1. Where We Make an Impact: Closing the Loop on Goals and Resources
	equipment, write documentation	
	and train staff	
	*plan for standardized safety tests	
	for equipment in yellow and red	
	levels, especially for new equipment;	
	train rest of staff on how to do	
	*attend MakerSpace-related	
	workshop or conference if	
	appropriate	
	*Lead: Mason	
	What would success look like and	
	how would you measure it?: Full	
	time makerspace technician hired in	
	summer 2019	
	Type of Request: STAFFING: Requests for permanent employee positions or	
	temporary/hourly employees.	
	Planning Unit Priority: High	
	One-Time Funding Requested (if	
	applicable): 0	
	On-Going Funding Requested (if	
	applicable): 65000	
	Request - Full Funding Requested -	
	Half time Technician support	
	*Describe Plans & Activities	
	Supported (Justification of Need): In	
	order for the MakerSpace to stay	
	open as the grant ends in May 2019, the staff who supervise the space	
	need to be funded from some other	
	source. We have identified equity,	
	strong workforce and general	
	campus funds as potential funding	
	sources to support the ongoing	
	mission of the Mountie MakerSpace.	
	The full-time technician will provide	
	about 35 hours of open time in the	
	MakerSpace (one hour of prep or	
	cleanup per day for 5 days) The part-	

time technician will provide about 15-18 hours of open time in addition, perhaps with some overlap for especially busy times (such as when two classes will be working in the MakerSpace or other special events). Optimally the MakerSpace will be open 50 hours/week including some daytime hours.

Technician will:

*research new equipment and the appropriateness and cost of acquisition

*plan any changes to the layout of the MakerSpace to facilitate safer, easier and more effective use *do the re-organization

* implement safety procedures and policies, and modify as needed
*plan activities and then manage student workers who clean, install and repair items in the building
*assemble hardware for machines
*manage, maintain and/or build software and database to monitor, measure and record the use of machines with RFID cards
*maintain, adjust and execute a way for RFID cards to be personalized by staff as needed by members, including a way to label them individually

*implement the database to track machine usage both for MakerSpace records and for badging *work with Lead Faculty and Director to activate new badges and setup awarding system for members *update current member database

Unit	Goals
Unit	Gouis

to reflect new requirements for reporting *repair and maintain existing equipment, provide safety upgrades and write use and maintenance memos *install and service newly acquired equipment, provide training for staff and write use and maintenance memos *plan for activities, including monthly meetup activities, cooperative workshops, Regional Meetings, CalPoly iLab workshops, Open House activities, Flex Day and new faculty tour activities, robot fighting competitions, other activities TBD including class visits *present information at Steering Committee meetings, other special workshops or meetings including Flex Day, new Faculty Tour, Regional Meetings and possibly Board meetings (Trustees and/or Foundation) if appropriate *plan for and implement monthly maintenance for each piece of equipment, write documentation and train staff *plan for standardized safety tests for equipment in yellow and red levels, especially for new equipment; train rest of staff on how to do *attend MakerSpace-related workshop or conference if appropriate *Lead: Mason

What would success look like and how would you measure it?: Half time makerspace technician hired in June 2019. Type of Request: STAFFING: Requests for permanent employee positions or temporary/hourly employees. Planning Unit Priority: High **One-Time Funding Requested (if** applicable): 0 **On-Going Funding Requested (if** applicable): 35000 **Request - Full Funding Requested -**Supply budget *Describe Plans & Activities Supported (Justification of Need): The MakerSpace is a high utilization laboratory facility and has ongoing costs associated with keeping the equipment supplied. In order for the MakerSpace to stay open as the grant ends in May 2019, the supply budget needs to be funded from some other source. We have identified equity, strong workforce and general campus funds as potential funding sources to support the ongoing mission of the Mountie MakerSpace. *Lead: Mason/Wilson What would success look like and how would you measure it?: Ongoing supply budget established and is able to be spent starting in June 2019. Type of Request: SUPPLIES AND MATERIALS: Instructional supplies and materials are items to be used by students, faculty and other personnel in connection with an instructional program, less than \$500.

Planning Unit Priority: High **One-Time Funding Requested (if** applicable): 0 **On-Going Funding Requested (if** applicable): 10000 **Request - Full Funding Requested -**Student Workers (1-SW5, 4-SW3) *Describe Plans & Activities Supported (Justification of Need): In order for the MakerSpace to stay open as the grant ends in May 2019, the staff that supervises the space needs to be funded from some other source. We have identified equity, strong workforce and general campus funds as potential funding sources to support the ongoing mission of the Mountie MakerSpace. Under supervision of Technicians and Director, Student Workers: *assist MakerSpace members with the use of equipment and materials to create items, as needed *clean MakerSpace and put items away *maintain and repair the hardware for each machine, including RFID equipment *provide safety upgrades as needed *install and service newly acquired equipment, provide training for other staff as appropriate *write usage memos for members as needed *assist in any other tasks as requested by any of the other staff *Lead: Mason What would success look like and how would you measure it?: Student

worker budget is established and student workers are able to be paid from it starting in June 2019 Type of Request: STAFING: Requests for permanent employees. Planing Unit Priority: High One-Time Funding Requested (if applicable): 0 On-Going Funding Requested (if applicable): 15000 Request - Full Funding Requested - Repair budget *Describe Plans & Activities Supported (Justification of Need): The Mountie MakerSpace has a significant investment in equipment that, with the work of the expert technical staff, can function for years to come with a small budget to support for the MakerSpace to stay open as the grant ends in May 2019, the repair parts need to be funded from a non-grant source. We have identified equity, strong workforce and general campus funds as potential funding Sources to stay opticat ling funds as potential funding sources to support the engoing mission of the campus makerspace. *Lead: Masan/Wilson What would succes look like and how would you measure it?: Repair budget established to support repairs of equipment, and that budget can be used for repairs in 2019/20 Type of Request: OTHER OPERATING EXPENSES AND SERVICES: Requests for contracted, legal/ Judit, personal/ consultant, rent/ leases, repairs/	Unit Goals	Resources Needed	1. Where We Make an Impact: Closing the Loop on Goals and Resources
Type of Request: OTHER OPERATING EXPENSES AND SERVICES: Requests for contracted, legal/ audit, personal/		 worker budget is established and student workers are able to be paid from it starting in June 2019 Type of Request: STAFFING: Requests for permanent employee positions or temporary/hourly employees. Planning Unit Priority: High One-Time Funding Requested (if applicable): 0 On-Going Funding Requested (if applicable): 15000 Request - Full Funding Requested - Repair budget *Describe Plans & Activities Supported (Justification of Need): The Mountie MakerSpace has a significant investment in equipment that, with the work of the expert technical staff, can function for years to come with a small budget to support the purchase of repair parts. In order for the MakerSpace to stay open as the grant ends in May 2019, the repair parts need to be funded from a non-grant source. We have identified equity, strong workforce and general campus funds as potential funding sources to support the ongoing mission of the campus makerspace. *Lead: Mason/Wilson What would success look like and how would you measure it?: Repair budget established to support repairs of equipment, and that budget can be 	
		Type of Request: OTHER OPERATING EXPENSES AND SERVICES: Requests for contracted, legal/ audit, personal/	

maintenance, and other misc. services. May also include request for travel and conference that does not require the assistance of POD. Planning Unit Priority: High **On-Going Funding Requested (if** applicable): 8000 **Request - Full Funding Requested -**Director position; at least half-time. *Describe Plans & Activities Supported (Justification of Need): Provide overall leadership and direction for the makerspace. Interface with faculty, students, staff, administration, employers, and the community. *write the year-end narrative report to describe MakerSpace successes. Confirm analysis by Administrative Aide of the fiscal data, and provide to appropriate Office. *working with Lead Faculty, plan for the achievement of next year goals, ensuring that items and staff necessary for achieving those goals are put into place before fall semester begins. This also includes planning training for any new employees *arrange, track and modify as needed the schedules of technicians, admin assistant and student workers *put into place the rubrics and structures necessary to track information that reporting requires *plan and manage acquisition of equipment, software, guidelines/rules and training necessary to

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implement new procedures or activities, so that all MakerSpace employees are prepared and able to help members with issues or questions and to be sure that members follow the guidelines *document the changes, improvements and additions with photos, videos and written descriptions for inclusion in articles, blog entries and other PR materials; update current PR materials *update regularly the LinkedIn group for Mountie MakerSpace and publicize, especially the badging options *plan for and help implement the badges and achievements that our RFID system will activate, the limits for each of those and strong descriptions and graphical representations of each *plan for and help implement the data structure necessary for tracking machine use by members, both as far as the limitations and requirements of our database and RFID equipment, and the requirements of the administering Division/Department and the badging companies *assist in the re-organization of and planning for any future expansion of the MakerSpace, in light of current and expected future uses *publicize the changes in the Space, expected activities for next year to students, faculty, staff and community members in addition to

Unit Goals	Resources Needed	1. Where We Make an Impact: Closing the Loop on Goals and Resources
	other community colleges who have MakerSpaces *plan and implement monthly meetup activities, cooperative workshops, Regional Meetings, CalPoly iLab workshops, Open House activities, Flex Day and new faculty tour activities, robot fighting competitions and/or other activities TBD including class visits *write a MakerSpace Blog *continue to update the administrators with information upon request *plan and implement changes for the MakerSpace sub-web page on mtsac.edu *assist the Faculty Lead in reaching out to faculty, staff and departments to increase participation at the MakerSpace *work with the Foundation to continue to facilitate the system which enables purchase of materials by members at the MakerSpace *work with the Foundation to plan for Alumni Day *work with the Foundation to involve the Foundation Board in the MakerSpace *plan for the MakerSpace Team to present progress to the Board of Trustees at a convenient meeting *work with campus sources to acquire funding for MakerSpace *present to President about progress of and potential funding needed for MakerSpace *setup Steering Committee meetings	
	as needed, arrange	

Unit Goals	Resources Needed	1. Where We Make an Impact: Closing the Loop on Goals and Resources
	agendas and food items, invite people and document attendance *attend workshops or conferences about MakerSpaces in Education as appropriate *Lead: Mason What would success look like and how would you measure it?: Makerspace leadership is provided for at least 20 hours/week throughout the entire calendar year Type of Request: STAFFING: Requests for permanent employee positions or temporary/hourly employees. Planning Unit Priority: High On-Going Funding Requested (if applicable): 55000 Request - Full Funding Requested - Administrative assistant support for the makerspace *Describe Plans & Activities Supported (Justification of Need): A part time Administrative Assistant to support the MakerSpace Director and Technicians in compliance with safety regulations, student data tracking and reporting to administrators as required.	
	packing slips and other ordering information to track expenditures *collect, analyze, correct and verify timecards, deliver to appropriate Office and then if needed take to Payroll or other Office *analyze and present data as needed for reports to Deans, Administration, grant managers and BOT	

*at request of Faculty Lead, Director and/or Project Experts, create new documents for management of space, management of grant etc and have printed for use by members or staff and/or placed online *add new members and interested persons to email lists as appropriate, manage those members whose email addresses change, are bad or members wish to change status *assist to train new staff in how to use existing equipment *create signs and instructional sheets for equipment in space *help plan and administer special events, including sign-in sheets, related purchases *track, record and store membership agreements (paper) *track. record and store membership level agreements and proof of testing (paper) *track, record and store data about non-members who spend time in the space at events, workshops etc *manage, update and correct member database *collect data in new ways depending on needs of reporting *equipment database maintenance and support including documenting equipment in our database (donations and purchased), for web page and for RFID/badging project including serial numbers, make and model, tech manuals online etc *create illustrations and text for future website page illustrating equipment available in space

Unit	Goals	
Unit	Gouis	

*consult with Director and Project Experts on MakerSpace activities *assist with monthly meet up activities, cooperative workshops, Regional Meeting, CalPoly iLab workshops, Open Houses, Flex Day and new faculty tour activities, other activities TBD including class visits *manage RFID fobs or other login devices for members *Lead: Arthur What would success look like and how would you measure it?: Administrative assistant is hired Type of Request: STAFFING: Requests for permanent employee positions or temporary/hourly employees. Planning Unit Priority: High **On-Going Funding Requested (if** applicable): 22000 **Request - Full Funding Requested -**Release Time for Faculty Lead *Describe Plans & Activities Supported (Justification of Need): Faculty Lead provides general oversight and design of usage of MakerSpace, especially with regard to making most effective for students success. Also:

*outreach by attending various department meetings throughout the campus Divisions *encourages faculty to tour the MakerSpace, especially with their classes *offers assistance to faculty in incorporating making into the curriculum

Unit Goals	Resources Needed	1. Where We Make an Impact: Closing the Loop on Goals and Resources
	*Designs and implements "Flex Day"	
	development activities each	
	semester, and New Faculty	
	workshops each semester	
	*supports once-a-month faculty get-	
	togethers to discuss issues and	
	solutions for implementing project-	
	based learning *invites administrators to visit	
	MakerSpace, to create in the Space,	
	to hold meetings in Space	
	*keeps Board of Trustees and	
	Foundation informed about activities	
	and details, invites them to the	
	MakerSpace	
	*work with campus sources to	
	acquire funding for MakerSpace	
	*present to President about	
	progress of and potential funding	
	needed for MakerSpace	
	*setup Steering Committee meetings	
	as needed, arrange agendas and	
	food items, invite people and	
	document attendance	
	*as appropriate and needed, provide	
	outreach via social media	
	6 LHE per semester plus 3 LHE for	
	summer or winter	
	maintenance/repairs/upgrades.	
	Currently, 6 LHE/semester paid by	
	grant and 3 LHE for summer paid by	
	College.	
	Below \$ amount reflects summer	
	2019, plus fall and spring 2019/20	
	*Lead: Mason	
	What would success look like and	
	how would you measure it?: Faculty	
	Lead is able to plan and implement	

Unit Goals	Resources Needed	1. Where We Make an Impact: Closing the Loop on Goals and Resources
	MakerSpace activities during two semesters of fiscal year, and is able to	
	plan and guide improvements etc for MakerSpace during summer term	
	Type of Request: STAFFING: Requests	
	for permanent employee positions or temporary/hourly employees. Planning Unit Priority: High On-Going Funding Requested (if	
	applicable): 23857	
Sustainability - Recycle and reuse items from campus and from	Report directly on Goal	Reporting Year: 2018-19 % Completed: 75
members, providing materials to		We are currently accepting scrap wood from the theater
make items and preventing those		dept, which enables our members to test cuts, engraving
items from entering the landfill.		and paint or finish work before doing their final project.
Having sustainable programs on		We also are accepting pieces of metal, leftover nuts and
campus helps to both promote		bolts and other miscellaneous tooling from the IDE
collaboration and to show that we are good members of our larger		department. Members often can explore possibilities using these items.
community.		
Status: Active		We have several small bins full of extra cloth from a
Goal Year(s): 2018-19, 2019-20 Date Goal Entered (Optional):		disbanded quilting club that everyone is welcome to use.
05/31/2018		Finally, we encourage members who bring in materials to
00,01,2010		leave any excess that they have, so there are often pieces of
		acrylic and other materials available for use.
		It would be great to get more materials brought over from
		other areas, although since there are mice in the area, we
		do have to be very careful to only accept clean materials (06/03/2019)
	Request - Partial Funding Requested - Drop off area integrated into the	
	makerspace to recycle goods and raw materials from other campus	
	areas.	
	*Describe Plans & Activities Supported (Justification of Need):	
	supported pushication of Meed).	

Build on the ongoing relationship with the theater, architecture and welding departments (and others as appropriate) to recycle used material from campus programs into MakerSpace and student projects. Develop a covered drop off and sorting area proximate to the dumpster to allow for processing of donated materials. Develop method for pickup of excess materials as needed.

*Lead: Arthur

What would success look like and how would you measure it?: Material sorting area established and appropriate campus personnel notified.

Type of Request: FACILITIES: This section includes minor building improvement projects and alterations to specific rooms or operational areas.

Planning Unit Priority: Medium One-Time Funding Requested (if applicable): 5000