

Office of the President
Rajen Vurdien, Ph.D.

March 18, 2016

California Community Colleges Chancellor's Office
1102 Q St, Suite 4554
Sacramento, CA 95811-6549

Re: Statement of Interest INNOVATIONMAKER Investment 3 (Fiscal Year 2015-16)

Pasadena City College (PCC) along with the partnership of Glendale Community College (GCC), Cerritos College (CC), El Camino College (ECC) and Long Beach City College (LBCC) has the interest in participating in the INNOVATIONMAKER Investment 3 opportunity by the CCCCCO and California Council on Science and Technology (CCST). Colleges have participated in regional efforts from SB 70, SB 1070, CCPT and CTE EF and have developed institutional knowledge for collaboration across institutions. Many have makerspaces and support regional initiatives with industry partners and local digital fabrication and electronics vendors to support the programs of study. With the CCPT initiative, colleges are undertaking work-based learning with industry partners and are articulating projects and courses with high school partners. Many have undertaken their own Makerfaires to demonstrate this collaboration.

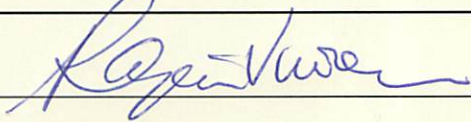
The inclusion of CCST to the existing framework to work based learning will enhance the model currently being implemented and will showcase the experiential learning framework within our institutions. Projects like regional competitions, makerfairs and common curricula will be shared and undertaken within the makerspace system for distributed manufacturing of many of the same components necessary to undertake the projects. Students creatively developing the projects and manufacturing the components would enhance the work-based learning experience. Below are other activities undertaken at the colleges:

Connections	Activities at Colleges	Outcomes
Integrated Academics	Faculty at colleges developed methods of contextualizing numeracy and literacy skills within advanced manufacturing classes which exemplify critical thinking, creativity, collaboration and communication	Skill mapping, project based learning
Interdisciplinary Collaboration	Design, engineering, English, speech, physics and math faculty have collaborated in developing assignments to evaluate critical thinking, creativity, collaboration and communications in project based learning	Makerfaires, Hackathons, Integrated assessments

Career Pathways	Structured program of study with high schools for development of projects, out reach and recruitment	Coordination Scheduling Convening
Work Based Learning	Colleges are participating in regional effort in Career Pathways Trust Grants work with industry partners in job shadowing and internships, where employers evaluate students.	Career Readiness Soft Skills training

SECTION A

Lead Applicant District/College:	Pasadena Area Community College District
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Chief Executive Officer	
Name	

Primary Project Contact	
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Our college has interest in exploring or is in the process of exploring how better to connect to the Maker movement.	TRUE	TRUE	TRUE	
Our college has already explored and has made a commitment to the Maker movement through formal action (e.g., resource commitment, Trustee vote, etc.).	TRUE			
Our college has explored, committed to, and has already set up a Maker space.	TRUE, Click for Video		TRUE	TRUE
Our college has a team consisting of at least a STEAM/STEAM faculty paired with a CTE faculty to champion this program on our campus.	TRUE		TRUE	TRUE
Current Standing	PCC has developed a maker space to support a career pathway program with a gateway course for various design technology disciplines. Methodologies of integrated academics, 4C's and technology practice are used to develop interdisciplinary projects in teams utilizing the maker space. We have developed preliminary work based learning activities supporting local small businesses.	Our college would like to partner in this grant to explore the Maker movement. No formal action has been taken on campus.	GCC just hosted a Maker Faire two weeks ago where 230 attendees signed up. Industry reps judged projects submitted by high school, GCC & COC, and CSUN. A Manufacturing lab and a CS/IS Sandbox lab have recently opened for student project use.	The college has made commitments to create a culture that supports the maker space movement that includes labs, faculty and staff.
My college can help others explore, commit to, and set up a Maker space.	TRUE	TRUE	TRUE	

My college can help others develop partnerships with industry/business/iHubs in order to 1) generate work-based learning opportunities for students and/or 2) secure financial support			TRUE	TRUE
My college can help others form/develop partnership with grade 9-12 institutions to facilitate early career exploration.	TRUE		TRUE	TRUE
My college can help others consider instructional strategies, including but not limited to 4C skills as well as technical skills, and how those strategies relate to community college courses, certificates, and programs.	TRUE		TRUE	
My college can help others bring together STEM/STEAM and CTE faculty to champion the program.	TRUE		TRUE	
Expertise to Contribute	Faculty and industry at PCC's maker space have developed strategies of integrated academics which extend to high school partners. Developed the Student Worker Advancement Program (SWAP) to integrate work readiness in our student workers.	Our college's participation will be limited to exploring the maker space and integrating aspects appropriate to our departments in our curriculum. We are not committed to developing a physical space and to set up a shop for this right now.	Local and regional trainings of K16 instructors and staff will be shared. Contextualized Teaching & Learning will be expanded. Student projects will be jointly worked on from various sites.	College has models in place that can be disseminated.

<p style="text-align: center;">Comments</p>	<p>Contributions with the SBDC can also be included for entrepreneurial activities.</p>	<p>Our college's interest resides in learning from what has been already setup by the lead college and from other colleges participating in the grant. Our goal is to infuse the curriculum of our departments with what will be learned from the collaborative. The physical integration of what will be learned and the opening up of a space are not planned at this point in time. Our role is that of a supporting organization who can collaborate on ideas.</p>	<p>Partnering regionally will enhance opportunities for students to develop skillsets, team work and critical thinking.</p>	<p>College has relationships with other maker space entities in the region and as industry partnerships that support these efforts.</p>
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