



The following survey is intended to solicit your interest and capacity. A multi-college Letter of Interest is highly encouraged although single-college applicant is welcomed. Please submit a separate Section B for EACH interested community college associated with the lead applicant. Only community college districts are eligible. All letters received will be posted on the web page associated with this Solicitation. Colleges may still participate in the RFA without submitting a Letter of Interest, although submission of a Letter of Interest in highly encouraged.

Please direct any question to: [innovationmaker@cccco.edu](mailto:innovationmaker@cccco.edu)

Thank you!

**SECTION A**

<b>Lead Applicant</b>	<b>San Diego City College</b>
<b>District/College:</b>	
<b>Address:</b>	<b>1313 Park Blvd, Suite 100, San Diego, CA 92101</b>

<b>Chief Executive Officer</b>			
<b>Anthony Beebe</b>			
<b>Name</b>			
<b>Primary Project Contact</b>			
<b>Trudy Gerald</b>		<b>DSN, Advanced Manufacturing</b>	
<b>Name</b>		<b>Title</b>	
<b>619-388-3730</b>	<b>619-388-4322</b>	<b>3/15/2016</b>	
<b>Phone</b>	<b>Fax</b>	<b>Date</b>	
<b>tgerald@sdccd.edu</b>			
<b>Email</b>			

**SECTION B**

Please respond to the following questions so we can better understand the demand level:

0	<b>Name of College:</b>	<b>San Diego City College</b>
1	<b>Describe where your college stands in the process</b> <i>(please check your stage of adoption)</i>	
	Our college has interest in exploring or is in the process of exploring how better to connect to the Maker movement.	<b>yes</b>
	Our college has already explored and has made a commitment to the Maker movement through formal action (e.g., resource commitment, Trustee vote, etc.).	<b>yes</b>
	Our college has explored, committed to, and has already set up a Makerspace.	<b>yes</b>
	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.	<b>yes</b>
	Other:	

2	<b>Expertise You Can Contribute to the Community-of-Practice</b> <i>(please check all that applies)</i>	
	My college can help others explore, commit to, and set up a Makerspace.	<b>Yes</b>
	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.	<b>yes</b>
	My college can help others form/develop partnership with grade 9-12 institutions to facilitate early career exploration.	<b>yes</b>
	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.	<b>yes</b>
	My college can help others bring together STEM/STEAM and CTE faculty to champion the program.	<b>yes</b>
	Other:	

**3. Please add any comments relevant to this intent survey --**

San Diego City College has supported innovation for over 20 years with the San Diego Technology Incubator (SDTI). The incubator is a joint project of the City of San Diego and the San Diego Community College District. Originally funded by a grant from the U.S. Department of Commerce/Economic Development Administration, the Incubator is now self-supporting. This 19,000 square foot facility resides at San Diego City College and is part of the Centers for Applied Competitive Technologies (CACT) program. The San Diego Technology Incubator supports the economic development of the region by sheltering and supporting new technology, manufacturing and small business ventures. In addition, The San Diego Technology Incubator offers consultation to entrepreneurs in a multitude of areas including those related to legal issues, contracting, business development, human resources, grants & contract management, marketing, client development, and innovation. Through the SDTI we have supported the culture of making and launching new ideas into the region for many years. In the last two years we formed a partnership with FAB LAB San Diego. FAB LAB San Diego is a Maker entity focused on developing creative learning experiences for people of all ages, and engaging students and community to explore ideas through the use of innovative technology. Through the partnership between SDTI and FAB LAB we have expanded our focus on the culture and opportunities for “making” in California. Lessons learned and effective strategies for developing similar partnerships can be shared with other colleges and serve as a start-up model.

Since 2001 MIT has led international efforts to teach young people 21<sup>st</sup> Century skills including online media and content creation capabilities, digital design and fabrication capabilities, and online collaboration and project management. Our collaboration with Fab Labs provides learning environments for hands-on, project-based, experiential learning as such how to program a video game, or how to make functional, electronically active objects with an array of sensors and electronic components. In the process students learn basic electronics principles, programming principles, fabrication, documentation, and knowledge-sharing skills. We also work with educators and governments creating new paths and new technologies to enable the learning process. This research is essential to finding simple, intuitive tools for teaching complex technological skills.

Fab Lab San Diego is an independent non-profit community space and educational program provider that focuses on emerging technologies, STEM/STEAM education, and support for inventors of all ages. Fab Lab works with innovators and educators to help students and the general public learn about advanced technologies while combining best practices from the informal learning environment with academic outcomes for career readiness and workforce preparation.

*“The San Diego Fab Lab is pleased to be a partner with City College to further the reach of these educational programs. We enthusiastically support collaboration with City College, and our work together aimed at expanding access to the educational offerings at City College through new learning points of access offered by Fab Lab.”*

*Katie Rast  
Director, Fab Lab, Inc.*

These collaborative activities aim to increase our combined reach and offerings of introductory educational experiences for youth and adults focused on engaging interest and inspiring ability in areas of technical knowledge. This includes hands-on learning opportunities and micro-credentialing that open doors for newcomers to career technical training as well as community members who might not currently be involved on an educational pathway. This partnership is an important part of offering a pathway to success that leads learners toward accessible options such as degrees or certificate programs at City College.

The CACTs/DSNs for Advanced Manufacturing also has a strong link and network across the state. Through our network we are able to share best practices and trends in the maker movement. Currently we support the exploration of Kickbox (an open source tool for accelerating innovation and entrepreneurial mindset for all employees. This tool is currently being integrated at Sierra College spearheaded by their DSN for Advanced Manufacturing and we look forward to learning more and serving as an additional pilot site for refinement.

San Diego City College’s “City College STEM Collaborative” is also a model that can be shared with our K-12 partners. This model can be replicated to strengthen the K-12 -Community College – workforce pipeline. Over the last 20 years City College has work with local middle and high school programs to better align and invigorate curriculum to promote innovation, business development, technical skills and soft skills into the CTE programs.

Our partnership with the National Association of Community College Entrepreneurship (NACCE) is growing and through this relationship we continue to learn and share best practices with community colleges across the nation. NACCE has great resources included introduction of models like the one underway in 11 Appalachian communities, which is facilitating and mapping and enhancement of regional business and entrepreneurial ecosystems. These models may have application to California and would provide a foundation to support our efforts.