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

Thank you!

SECTION A

Lead Applicant District/College:	Sierra Joint Community College District/Sierra College
Address:	5000 Rocklin Road, Rocklin CA 95677

Chief Executive Officer	
William H. Duncan IV	
Name	

Primary Project Contact	
Carol Pepper-Kittredge	Director, Center for Applied Competitive Technologies
Name	Title
916-660-7801	916-630-4523	3/18/16
Phone	Fax	Date
Cpepper-kittredge@sierracollege.edu	
Email	

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

0	Name of College:	Sierra College/ 2 campus locations, Rocklin and Grass Valley	
1	Describe where your college stands in the process *(please check your stage of adoption)*		
	Our college has interest in exploring or is in the process of exploring how better to connect to the Maker movement.		Yes
	Our college has already explored and has made a commitment to the Maker movement through formal action (e.g., resource commitment, Trustee vote, etc.).		Yes
	Our college has explored, committed to, and has already set up a Makerspace.		Yes
	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.		Yes
	Other: We are a) working collaboratively/providing technical assistance to other community colleges to assist them with their innovation efforts, b) partnering with Mark Randall, Chief Strategist for Adobe to integrate the open source Kickbox model		

into Business Entrepreneurship curriculum and pedagogy, c) conducting a faculty professional development "Making Across the Curriculum" series in summer 2016 in partnership with Folsom Lake College's Office of Innovation and Hacker Lab, and d) supporting events such as an annual Mini-Maker Faire (City of Rocklin), Get STEAMed Hack-a-thon (Hacker Lab), and StartUp Hustle incubator (Hacker Lab). We are participants on the SETA/Golden Sierra Workforce Development Board's Slingshot initiative to accelerate entrepreneurship in the Sacramento region, and are partnering with the National Association for Community College Entrepreneurship (NACCE) on a "Makers" presentation track for the national conference, to be held in Sacramento in fall 2016. Four proposals, including two that are faculty-driven, have been accepted, and an evening tour and reception at Hacker Lab for conferees will be held. Additionally, our Grass Valley campus is solidifying a partnership between The Curious Forge, a 3,000 sq. ft. makerspace, and the Nevada County Economic Resource Council. This partnership will serve students, residents and businesses in the eastern Placer and Nevada County regions. An additional makerspace in Truckee, The Roundhouse, is just getting started. Sierra College is building and enhancing its role in the entrepreneurial and workforce development ecosystem through strategic planning efforts, which are being closely supported and watched by VSP Global. Leveraged support includes cash and in-kind from the City of Rocklin, which has designated the geographic area of the College, the makerspace and City Hall as an Innovation District; and businesses such as U.S. Bank, which is providing cash and in-kind mentor support for a student competition, and Adobe which provided professional development to faculty on the use of its enterprise-wide innovation toolkit called Kickbox.	

2	**Expertise You Can Contribute to the Community-of-Practice** *(please check all that applies)*	
	My college can help others explore, commit to, and set up a Makerspace.	**Yes**
	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.	**Yes**
	My college can help others form/develop partnership with grade 9-12 institutions to facilitate early career exploration.	**Yes**
	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.	**Yes**
	My college can help others bring together STEM/STEAM and CTE faculty to champion the program.	**Yes**
	Other: Sierra College is the first community college in the country to form a public-private partnership with a makerspace/hackerspace. The Hacker Lab Powered By Sierra College is located near the Rocklin campus and is used by students, faculty and community/business members. Lessons learned and key strategies for developing and expanding the partnership will be a resource for other colleges, and Hacker Lab founders are experts who can provide technical assistance and consultation in forming similar partnerships.	

Mark Randall, Chief Strategist for Adobe, supports the integration of Kickbox (an open source tool for accelerating innovation and the entrepreneurial mindset for all employees) at Sierra College, and has asked that the model be shared once curriculum has been fully tested and refined. Materials will posted online and a summer institute will most likely be held in 2017.

The pilot and refinement of the U.S. Bank-funded model to infuse design thinking, mentoring and a competition into Sierra College business courses is one that we expect to scale up for other instructional disciplines. The intent is to engage business partners (leveraging cash and mentoring support), increase student learning with Hacker Lab experts and mentors, and provide real-world experience – the results of which are celebrated at a public/community demo event. Processes, student stories and outcomes will be posted online, and professional development training could be delivered in 2017.

Hacker Lab and VSP Global, along with SETA, Golden Sierra JTA and Sierra College are collaborating to pilot a series of employer-endorsed not-for-credit certificates. Subjects/skill sets include Design Thinking, Project Management, and Data Analytics. Sierra College is interested in exploring the extension of these courses into non-credit curriculum and course offerings. As this model is developed and piloted, best practices and lessons learned will be shared.

Sierra College's "Sierra STEM Collaborative" is a K-12 model which can be replicated, especially with CCPT funds, to strengthen community college maker/innovation efforts. Over eight years, the Sierra STEM Collaborative worked with regional high schools and middle schools to infuse the Maker passion and ethic into CTE courses. This has created a strong pipeline of students enrolling at Sierra College with advanced design and fabrication skills. It has also accelerated high school-to-college course articulation agreements and infused new technologies (such as Computer Numerically Controlled machines and digital manufacturing) into college laboratories. In fall 2015, Placer Union High School District developed a new "Design Thinking" capstone course which resulted in a "Golden Bell" statewide award, and will be holding a spring 2017 faculty Hack-a-Thon in partnership with Hacker Lab and Sierra College.

The partnership with the National Association for Community College Entrepreneurship (NACCE) is new and we expect it to grow. NACCE's VP of Education and Membership, Amy Schulz, has shared a training and consultation model underway in 11 Appalachian communities, which is facilitating the mapping and enhancement of regional business and entrepreneurial ecosystems. We are interested in exploring the applicability of this model to California.

Additionally, Dale Dougherty, founder of Make Magazine and the Maker Faire has a strong interest in partnering with California community colleges. The education arm of Maker Media has been deeply engaged in the K-12 environment; we would like to leverage Dale's expertise, passion and experience for the work we have started within the community college system.

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

Thank you for your leadership on this initiative; it is truly groundbreaking. Sierra Jt. CCD is interested in serving the Chancellor's Office in both a statewide and regional capacity pending review of the Request for Proposals. We have a dedicated team of executives, administrators, faculty and staff interested in sharing and collaborating with other community colleges. Additionally, our partners at Hacker Lab are recognized and highly respected in the work that they do. The CCCCO initiative will be the first statewide effort of its kind (in the nation); we would very much like to have a leadership role in this historical workforce and economic development initiative.

SECTION B

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

0	Name of College:	San Mateo Community College District/San Mateo College	
1	**Describe where your college stands in the process** *(please check your stage of adoption)*		
		Our college has interest in exploring or is in the process of exploring how better to connect to the Maker movement.	**Yes**
		Our college has already explored and has made a commitment to the Maker movement through formal action (e.g., resource commitment, Trustee vote, etc.).	**Yes**
		Our college has explored, committed to, and has already set up a Makerspace.	**Yes**
		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.	**Yes**
		Other:	
2	**Expertise You Can Contribute to the Community-of-Practice** *(please check all that applies)*		
		My college can help others explore, commit to, and set up a Makerspace.	**Yes**
		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.	**Yes**
		My college can help others form/develop partnership with grade 9-12 institutions to facilitate early career exploration.	**Yes**
		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.	**Yes**
		My college can help others bring together STEM/STEAM and CTE faculty to champion the program.	**Yes**
		Other: In 2013, San Mateo College opened the first community college library makerspace in the state. Events and equipment focus on lifelong learning, STEAM (Science, Technology, Engineering, Art and Mathematics) and skill building. A CSM President's Innovation Grant helped purchase tools, equipment and materials as workshop topics were piloted and refined. The success of the library makerspace lead to the endorsement by the CSM Chancellor and the College of San Mateo President to expand the makerspace and engage in building the community's entrepreneurial ecosystem. Planning efforts began in 2015 to develop a 50,000 square foot co-working and makerspace on the CSM campus. The intent is to increase interactions between businesses, students, faculty, and 'creatives' that result in expanded learning opportunities, development of start-up businesses, and the infusion of cutting-edge technologies and practices into curriculums. As the facility plan develops, CSM is continuing to grow efforts on campus, including a CSM Makerspace Club and the development of a DIY (Do-It-Yourself) tool lending library. CSM is adjacent to the San Mateo Fairgrounds, home of the Bay Area Maker Faire founded by Dale Dougherty in 2005. This annual event attracts more than 200,000 people to a weekend 'showcase of invention, creativity and resourcefulness.' Now a global phenomenon, maker faires and the maker movement are branded events that take place in cities and towns across the globe. CSM's proximity and relationship to the California Maker Movement, and its evangelist Dale Dougherty, will be a significant resource for all community college makerspace efforts in the state.	

3. **Please add any comments relevant to this intent survey** --
CSM seeks to work collaboratively and regionally. We believe, in partnership with Sierra College and other colleges, we can emulate and expand the open, authentic and passionate drive for learning culture that the Maker Movement has so clearly modeled.

SECTION B

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

0	Name of College:	Butte-Glenn Community College District/Butte College	
1	**Describe where your college stands in the process** *(please check your stage of adoption)*		
		Our college has interest in exploring or is in the process of exploring how better to connect to the Maker movement.	**Yes**
		Our college has already explored and has made a commitment to the Maker movement through formal action (e.g., resource commitment, Trustee vote, etc.).	
		Our college has explored, committed to, and has already set up a Makerspace.	
		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.	**Yes**
		Other:	
2	**Expertise You Can Contribute to the Community-of-Practice** *(please check all that applies)*		
		My college can help others explore, commit to, and set up a Makerspace.	**Yes**
		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.	**Yes**
		My college can help others form/develop partnership with grade 9-12 institutions to facilitate early career exploration.	**Yes**
		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.	**Yes**
		My college can help others bring together STEM/STEAM and CTE faculty to champion the program.	**Yes**
		Other: Butte College has active and robust business and community partnerships in the Far North Region. The College is the lead for the regional Career Pathways Trust, is host to the Health Sector Navigator and DNSs for Health and Information & Communication Technology, and manages a strong workforce development program in Chico. Butte College intends to 1) grow a Far North entrepreneurial ecosystem and increase access to one or more makerspaces, 2) research best practice models for healthcare innovation through public-private partnerships, 3) strengthen the STEM and STEAM pipeline from K-12 to postsecondary and graduate levels, 4) develop new opportunities for business and industry to endorse noncredit courses and certifications, and 5) grow work-based opportunities for students. Our partners will include community assets such as Idea Fab Labs, Innovate North State, the Small Business Development Center, CSU Chico, the City of Chico, regional economic development agencies, employers, nonprofits and community-based organizations, and the Northern Rural Training and Employment Consortium.	
3.	**Please add any comments relevant to this intent survey** --		
	Butte College seeks to work collaboratively and regionally, expand student learning opportunities within and beyond classroom walls, and create a system that accelerates the adoption of leading edge technologies, content and processes into community college curriculum. Working in partnership with Sierra College, we will have access to resources and best practices that are replicable and scalable.		

SECTION B

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

0	Name of College:	Los Rios Community College District/ Sacramento City College	
1	**Describe where your college stands in the process** *(please check your stage of adoption)*		
	Our college has interest in exploring or is in the process of exploring how better to connect to the Maker movement.		**Yes**
	Our college has already explored and has made a commitment to the Maker movement through formal action (e.g., resource commitment, Trustee vote, etc.).		
	Our college has explored, committed to, and has already set up a Makerspace.		
	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.		**Yes**
	Other: Sacramento City College (SCC) has been discussing the Hacker Lab and the Maker Movement for approximately two years. These discussions started as a grassroots faculty effort in the Business Division and have since expanded to include many departments, faculty and staff. Faculty, managers and staff have visited and participated in discussions with the Hacker Lab in Sacramento and Rocklin as well as Innovation Center at Folsom Lake College. Follow up meetings and research confirmed our desire to engage in this new and innovative educational endeavor. Our interests span faculty, student, industry and community engagement in creating an innovative and creative environment that encourages, supports and fosters entrepreneurship, innovation, good citizenship and leadership while utilizing community resources to create and retain jobs in our region. Our primary limitation has been access to funds, and the challenges of making participation affordable for students, especially those who are economically disadvantaged. Considering that SCC has been identified as a Hispanic Serving Institution (HSI) and is applying for a HSI grant focused on the integration of STEM/STEAM and CTE, using the making movement for educational enhancement is a worthy next step . A CTE/STEM faculty work group has been formed to discuss curriculum integration and alignment, contextualized and linked learning as well as real work learning applications. SCC continues to run a yearly Allied Health Learning Community of Practice with our K-12 and local community college partners and a summer institute for high school students who are interested in allied health careers. SCC in conjunction with Sacramento State and the Sacramento City Unified School District has formed Sacramento Pathways to Success which is focused on preparing high school students for college level work in Math and English. SCC works closely with Career Pathway Trust Grantees (CAP/CRANE and STREAM) on curriculum alignment, course articulation and career pathways across industry sectors. SCC has established a steering committee composed of faculty (STEM and CTE), classified staff and managers to support and foster community engagement in the maker movement. This committee has met four times in the last six months, and has established a regular meeting schedule. Our goal is to provide making opportunities for faculty, staff and students to work together either on the campus or at an easily accessible location, to inform interdisciplinary curriculum and innovative program development as well as student learning outcomes, assessment and job creation, while utilizing hands-on, state-of -the art technologies. Users will address and solve		

		real world challenges which will prepare them for competition and job opportunities in a global and rapidly changing economy. SCC Business faculty assisted and advised students on the establishment of the "City Business Center" as a community resource for start-up projects and entrepreneurship. This student based organization will become an anchor tenant and assist SCC's maker movement in providing services at a designated location.	
2	**Expertise You Can Contribute to the Community-of-Practice** *(please check all that applies)*		
	X	My college can help others explore, commit to, and set up a Makerspace.	**Yes**
	X	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.	**Yes**
	X	My college can help others form/develop partnership with grade 9-12 institutions to facilitate early career exploration.	**Yes**
	X	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.	**Yes**
	X	My college can help others bring together STEM/STEAM and CTE faculty to champion the program.	**Yes**
		Other: SCC faculty has engaged in regional professional development offered by the DWM initiative, the DSN of Advanced Manufacturing and Hacker Lab. A lesson plan with eight modules focusing on 3D printing in SCC's Introduction to Computer Information Science has been developed and shared.	
3.	**Please add any comments relevant to this intent survey** --		

Our interest in and efforts to create a maker environment for faculty, staff, students and the community is supported by the Sacramento and Rocklin Hacker Labs, Sierra College, Folsom Lake College, Latinos in Information Sciences and Technology Association (LISTA); Sac link at Sacramento State, SMUD, VSP, City of Sacramento, Valley Vision, NextEd; Sacramento Employment and Training Agency (SETA) and by the industry advisory committees for our career technical education programs. SCC will work closely with Sierra College and Folsom Lake College on their ongoing instructional innovation efforts. SCC will participate in a Community of Practice, and on infusing making concepts, skills and culture throughout the curriculum and the community, as well as on creating work-based learning opportunities for students that are linked to the maker movement. These efforts will foster student competence and excellence in the 4 C's demanded by California's employers—critical thinking, creativity, collaboration and communications. We are fortunate to have the support and guidance of Sierra College, the first community college in the county to form a public-private partnership with a maker/hacker space. We plan to model our work on the key strategies, instructional designs, and technical assistance available through Sierra College, Folsom Lake College and the Hacker Lab. We look forward to collaborating and networking with our sister colleges American River and Consumnes River, regional resources, business mentorship and intellectual capital on creating a regional hub that is accessible to all community college students and community stakeholders and is not based on college of attendance.