

SECTION B

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

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| 0 | Name of College: | West Los Angeles College |
| 1 | Describe where your college stands in the process <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. | 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. | |
| | 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 |
| | <p>Other:</p> <p>During the last year, faculty from five of the college’s academic divisions— Science (Biology, Chemistry, Geology, Physics, pre-Engineering), Computer Science, Aviation, Business, and Art have explored the idea of creating a Makerspace at West Los Angeles College (West). We have researched the FabLab concept and visited the FabLab at UC Irvine.</p> <p>Collaboratively, we have identified a location, and written it into the college’s master educational and facilities planning documents. This physically central location on campus in which to house a Makerspace includes the potential to expand the space as new buildings are brought on line over the next two to three years.</p> <p>West’s Computer Science faculty are increasing the range of certificates to include robotics. Aviation is working with the Tesla Foundation to introduce a wide-ranging unmanned aerial robotics curriculum to augment the existing technician, avionics, and soon-to-be-offered ground school curriculum. Science is talking with the Engineering school at Loyola Marymount University on creating a transfer pathway from West to LMU in Engineering. New Business faculty are creating a buzz among students for entrepreneurship. All of the divisions have identified ways in which they can collaborate and encourage students to prototype ideas in a Makerspace.</p> <p>West is currently creating a new program in Creativity & Innovation. Historically, Los Angeles has grown because of the entrepreneurial and creative spirit of its business and civic leaders. Located in one of the most dynamic and creative industry ecosystems in the nation if not the world, West sees a Makerspace as a resource enabling students of color, low-income persons, and first generation college students to have the preparation to succeed in this ever-evolving business environment. Engaging students in creative and innovative thinking, development of prototypes, fostering entrepreneurship, and learning to work in teams to develop-fail-revise-succeed is crucial to long-term academic and professional success.</p> | |

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| 2 | Expertise You Can Contribute to the Community-of-Practice <i>(please check all that applies)</i> | |
| | 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 |
| | <p>Other:</p> <p>Essential components of all certificate and degree programs at West are student learning outcomes that demonstrate that students exhibit 21st century skills: critical thinking, communicating, creative thinking, and collaborating. These are manifested in presentations, a college-wide poster/video exhibition, and are the basis for a new sequence of courses, Creativity & Innovation, that the college is developing. Courses in this sequence will be part of a certificate and can be attached to existing certificates as ways to more fully engage students in the type of thinking that will enable them to be successful in both the academic and professional pursuits.</p> <p>West has strong relationships with feeder high schools:</p> <ul style="list-style-type: none"> ❖ the college’s JumpStart program conducts college credit classes at high schools so high school students can get a jumpstart on their college careers, ❖ West operates seven US Department of Education TRIO programs—an Educational Talent Search program, two Upward Bound Classic programs, two Upward Bound Math/Science programs, an Educational Opportunity Center, and a Student Support Services program, and ❖ West participates with feeder high schools on two California Department of Education Career Pathways Trust projects in entertainment/digital media, information technology, and health science. <p>These extensive high school partnerships create a natural influx of students attracted by exposure during their high school careers to new curriculum in STEAM that utilizes the Makerspace.</p> <p>West has solid partnerships with surrounding community colleges; in fact, these six colleges share students—students take classes at all of the colleges to meet degree requirements or fit time schedules. West will work enthusiastically to engage academic administrative and faculty leaders and their students at these colleges in the Makerspace.</p> <p>The Westside of Los Angeles is a hot bed of entrepreneurship in a variety of</p> | |

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| | <p>fields including biotechnology and bio-manufacturing, entertainment, medicine and medical device manufacturing, high-end custom manufacturing, transportation and global logistics, aviation, tourism, and high technology among many areas. The only Makerspace available to residents of the Westside of Los Angeles is located in downtown Los Angeles, a formidable distance on scarce public transportation away from potential users. Locating a Makerspace at West Los Angeles College in Los Angeles' dynamic Westside, will make access to these resources more accessible to thousands of students from the college and feeder high schools and encourage new partnerships with local industry and community groups.</p> | |
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3. Please add any comments relevant to this intent survey --

The Otis College of Art and Design in conjunction with the Los Angeles Economic Development Corporation looks at Los Angeles' creative economy annually and publishes a comprehensive report. In the 2015 Otis Report on the Creative Economy, the size and scope of the creative economy is massive:

- ❖ in the Los Angeles region, there are 418,000 direct jobs in creative industries; with indirect jobs, the number rises to 744,000—18% of all workers in the Los Angeles region and
- ❖ in the total Los Angeles gross regional product of \$861 billion, the creative industries generate a total output of \$177 billion, make a net contribution of \$109 billion (13% of the RGP) and contribute \$8 billion in taxes.

There is an economic imperative to expand West's existing educational infrastructure by adding a Makerspace. This will support the continued growth and impact of the creative industries by enabling students individually and in teams and members of the public with ideas to develop prototypes and explore entrepreneurship. It will enrich the already strong pipelines from high schools to college. A Makerspace, with access by college and high school students, the general public, and a focus on entrepreneurship will contribute immeasurably to opening doors of opportunity and prosperity in the rapidly evolving socio-economic marketplace that is West Los Angeles.

Using the INNOVATIONMAKER Investment 3 funding as seed funding, West will use both credit and non-credit courses to enroll users of the Makerspace in revenue generating streams that will provide continuing funding. Outreach to major industry sectors, regional Chambers of Commerce, and economic and workforce development agencies will contribute to continuing support for the Makerspace.