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COMPLETE

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Page 1: For Annual Planning/Program Review Requests AND Off-Cycle Requests

Q1 Technology Plan Year **2020-2021**

Q2 Title of Request

Rapid Prototyping Production Machines – Various technology

Q3 Location of Request

F 603

Q4 Department

CADD Technology and Manufacturing

Q5 Contact Person

Name	Dr. Cyrus Saghafi
Email Address	cyrus.saghafi@gcccd.edu

Q6 DescriptionPlease provide a brief description of the technology/software or technology project and its core goal(s).

Cuyamaca College's support of advanced manufacturing for small manufacturers will focus on two main areas: additive manufacturing, and light industrial robotics. In addition we will support a host of other advanced manufacturing technologies appropriate to small business, including investment casting, injection molding, laser cutting, vacuum forming, and materials testing.

Page 2: Proposal Justification

Q7 Please explain how the technology or enhancement supports the strategic plan. Include information on how students will be impacted and/or employees or the college or district overall. Consider whether this would be a district-wide implementation. Which Strategic Plan priority (or priorities) are supported by this request? To access the Strategic Plan, please click here.

**Basic Skills Acceleration,
Guided Student Pathways,
Student Validation and Engagement**

Q8 How does the request support the above priorities?

Support and enhance manufacturing efforts in East County, in particular the small manufacturers, through training and technical support in cost-effective "advanced" manufacturing techniques.

Q9 Who would this impact? Please select all that apply.

Students,

College,

Other (please specify):

Cuyamaca College is the regional leader in additive manufacturing (aka 3D printing) with 3D printers of various types, employing several different technologies for printing plastic parts.

Q10 What is the number of students or employees impacted per semester?

20

Q11 How would this impact the above group(s)?

We want to expand on this capability with additional printing technologies, including ultimately the ability to print metals.

Q12 Does the technology support a state-wide initiative or is it a legal mandate or in support of a legal mandate? **Yes**

Q13 If yes, please explain how the technology supports a state-wide initiative or is it a legal mandate or in support of a legal mandate?

We are more concerned about supporting the East County than other regions.

Q14 Please be aware that projects, once approved, are typically scheduled 6 months to a year in advance. Consider the consequences if the technology/software is not implemented, upgraded or renewed. What are the consequences if the technology/software is not implemented/upgraded, or renewed? Examples: Security concerns, loss of FTES, mandates, accreditation, etc.

Our students may be attracted to our neighboring colleges such as SD City Ollege

Q15 What is your preferred time for implementation?

Spring 2021 Since this is a brand new program , we do not have support

Q16 Tell us how the data you have supports the implementation of the technology. This can be qualitative or quantitative in the form of surveys, observations, SLO or other assessment data, institutional research data or other reports and data.

Since this would be brand new program such supporting data is not available.

Q17 How critical is this need in terms of supporting curriculum and services? **5**

Q18 Please attach any supporting data/documentation using the "Upload" button below. **Respondent skipped this question**

Page 3: COST ANALYSIS

Q19 Is the request for hardware or software? **Hardware**

Q20 Is the request for new or an upgrade to existing technology? **New (new to the campus)**

Q21 Total initial cost of request: This includes hardware and software maintenance, licence, taxes, fees, shipping, storage, etc. Contact Sherri Braaksma for assistance.

\$ 35000

Q22 Funding Source: **Other (please specify):
Strong Workforce funding**

Q23 Please attach quote using the "Upload" button below. **Respondent skipped this question**

Page 4: Grant Funding Source

Q24 Please specify the grant that will fund the technology you are requesting. **Respondent skipped this question**

Page 5: Evaluation Plan

Q25 Evaluationi. How do you plan to evaluate the technology after implementation?

By running for at least three months

Page 6: Type of Request

Q26 Is this an Off-Cycle Request (e.g., not part of the annual planning/program review process)? **Yes**

Page 7: Off-Cycle Requests Only

Q27 What are the exigent circumstances and/or contributing factors that would qualify this request to be eligible for Off-cycle consideration? Please explain why this request cannot wait until the next annual planning cycle.

Dealy on implementing this program would have impact on our enrollment.

Page 8: Ready to Submit

Q28 Are you ready to submit your technology request? **Yes**
