

**Cal State LA
LLaunchPad Summer Program
ASI Proposal
Summer 2020**



ECST LAunchPad Partnership with ASI

Cal State LA
March 13, 2020

ECST LAunchpad Partnership Agreement

Objective of ECST Acceleration Initiatives:

The ECST Acceleration Initiative offers a range of programs to recruit and support students as they begin their ECST journey, with the goal of preparing them to successfully complete their degrees and speed ahead into their STEM career. LAunchPad is one of the four programs that is part of ECST's acceleration program. At this time ECST has 15 % female students and the goal is to increase that to 25% female students by 2025.

Introduction

We seek \$4,600 from the Associated Student Inc. (ASI) to support Cal State LA's LAunchPad 2020 Summer Program, a two-week summer engineering and computing camp for high school women. LAunchPad's goal is to inspire participants to attend college and pursue a career in a STEM-related field. When the high school participants eventually apply to college, we hope some of them will choose to attend Cal State LA. ASI's support will allow us to continue to hire engineering, computer science, and technology (ECST) students to serve as student technical assistants to ECST faculty and staff. Student technical assistants enhance our current program design, which includes them in the programs classes, orientation, regional field trips, lab tours, and Futurethon event. We would welcome ASI's financial support and participation in these program elements.

Project Descriptions and Partnership Objectives:

LAunchPad Summer Program

A two-week summer program for rising high school female seniors teaching them how different engineering, and computer tools work together to make the world a better place. They work on various hands-on labs and projects to learn about electrical, mechanical, civil engineering, and computer science. This summer we hope to incorporate Fire Protection and 3-D design in the Makerspace.

Partnership Objectives: ECST undergrad and grad students have an opportunity to get professional development from faculty in electrical, mechanical, civil, and computer science departments as they work as student technical assistants. The ECST student technical assistants work directly with faculty with developing and facilitating curriculum that reinforces engineering and computer science concepts to rising senior female students to develop or strengthen their interest in pursuing these fields of study. A LAunchPad alumni who worked as a student technical assistant last summer stated "I learned how much I've grown from being a student learning about engineering to helping to teach about engineering. I went from dreaming of becoming an engineer to working towards my dream of becoming one."

Budget Narrative for LAunchPad Summer Program

ECST Student Technical Assistants

\$16.00 per hour X 50 hours per student=\$800

Benefits: \$800 X 15%=\$120

Total Salary and Benefits per student technical assistant= \$920

Five total student technical assistants= \$4,600

Total LAunchpad Summer Program Costs=\$4,600

GRAND TOTAL COSTS: \$4,600.00

Timeline:

Date	Activity	Responsible
March 2020	LAunchPad applications are distributed to MESA and local High Schools to nominate 5 rising senior females interested in STEM fields.	ECST Outreach, Director
April 2020	LAunchPad applications are due. ECST Student Technical Assistant applications are open to apply	ECST Outreach, Director
May 2020	ECST Student Technical Assistants are hired	ECST Fiscal Office, Faculty, and Student Technical Assistants
June 2020	ECST Student Technical Assistants work with ECST faculty on LAunchPad Curriculum preparing for classes.	ECST Faculty and Student Technical Assistants
July 2020	LAunchPad Summer Program at Cal State LA	ECST Outreach Director, Staff, Faculty, and Student Technical Assistants

Preliminary Schedule 2020

7/6-7/10	Monday	Tuesday	Wednesday	Thursday	Friday
MORNING 9am-12pm				1. Welcome 2. Ice Breaker 3. Engineering Challenge	Makerspace
LUNCH 12pm-1pm					
AFTERNOON 1pm-4pm				Data Science for Healthcare	Robotics and Sustainable Automation
7/13-7/17					
Monday	Tuesday	Wednesday	Thursday	Friday	
MORNING 9am-12pm	Water Conservation	Earthquake Engineering	Makerspace	Water Conservation	Field trip – Hyperion Water Reclamation Plant
LUNCH 12pm-1pm		Making L.A. Sustainable pitch		Industry Guest Panel	Picnic – Dockweiler State Beach
AFTERNOON 1pm-4pm	Fire Protection	Data Science for Healthcare	Robotics and Sustainable Automation	Fire Protection	The Aerospace Corporation
7/20-7/24					
Monday	Tuesday	Wednesday	Thursday	Friday	
MORNING 9am-12pm	Earthquake Engineering	Water Conservation	Data Science for Healthcare	Data Science for Healthcare	Futurethon - "The project you will work on in 2025"
LUNCH 12pm-1pm	Making L.A. Sustainable Check-In		Making L.A. Sustainable Check-In	Industry Guest Panel	Pizza Day!
AFTERNOON 1pm-4pm	Data Science for Healthcare	Robotics and Sustainable Automation	Robotics and Sustainable Automation	Work with professionals from industry (plus Futurethon)	Futurethon Presentation Rehearsal