U.S. Department of Education (USDE)/Developing Hispanic-Serving Institutions Program
California State University, Northridge/College of Engineering and Computer Science
USDE Annual Performance Report-APR (ED 524B)--Section A
Summary Sheet/Local Project Objectives/Peformance Measures
Year 1: October 1, 2016-September 30, 2017

	Local Project Performance Measure	Survey	Year	Data (%)					
1c: Improvements in student success (non-cognitive) skills	**How confident are you in your ability to do each of the following at this time?**	**EMS**	**16-17**	**Not Confident**	**Slightly Confident**	**Moderately Confident**	**Very Confident**	**Extermely Confident**	**I Prefer not to Answer**
	Design a new product or project to meet specific requirements			11.1	16.7	38.9	27.8	5.6	0
	Conduct experiments, build prototypes, or construct mathematical models to develop or evaluate a design			5.6	22.2	50	11.1	11.1	0
	Develop and integrate component sub-systems to build a complete system or product			16.7	22.2	44.4	16.7	0	0
	Analyze the operation of functional performance of a complete system			11.1	16.7	44.4	16.7	5.6	5.6
	Troubleshoot a faliure of a technical component or system			11.1	22.2	27.8	22.2	11.1	5.6
2b: Improvements in self-reports of quality, quantity, and effects of student-faculty and peer-peer interaction	**In the past year, how often have you discussed each of the following with faculty members at your institution?**	**EMS**	**16-17**	**Never**	**Rarely**	**Sometimes**	**Often**	**Very Often**	**I Prefer not to Answer**
	Course topics and assignments (not during class or section time)			5.3	10.5	42.1	26.3	15.8	0
	Your professional options with an engineering degree			10.5	26.3	31.6	15.8	15.8	0
	New design or business ideas			31.6	10.5	31.6	10.5	10.5	5.3
	In the past year, how often have you discussed each of the following with other students?	**EMS**	**16-17**	**Never**	**Rarely**	**Sometimes**	**Often**	**Very Often**	**I Prefer not to Answer**
	Course topics and assignments (not during class or section time)			5.3	15.8	10.5	26.3	42.1	0
	Your professional options with an engineering degree			5.3	15.8	31.6	26.3	21.1	0
	New design or business ideas			21.1	31.6	26.3	10.5	10.5	0
	How satisfied were you with the following aspects of the AIMS2 research program?	**URSSA**	**16-17**	**Not Applicable**	**Very Dissatisfied**	**Somewhat Dissatisfied**	**Somewhat Satisfied**	**Very Satisfied**	
	Ease in working with a faculty research mentor			0	7.1	14.3	35.7	42.9	
	Support and guidance from my faculty research mentor			1	7.1	14.3	28.6	50	
	Support and guidance from other research group members			7.1	0	14.3	28.6	50	
	What motivated you to do research?	**URSSA**	**16-17**	**Yes**	**No**				
	Work more closely with a particular faculty member			71.4	28.6				
	On average, how many hours per week did you spend talking with your most recent faculty research mentor?	**URSSA**	**16-17**	**None**	**1 Hour**	**2 Hours**	**3 Hours**	**4 or More Hours**	
	Hours per week with most recent faculty research mentor			7.1	35.7	35.7	14.3	7.1	
4a: Gains on measures of self-perceptions, attitudes, and skills related to career	**How important is it to you to be involved in the following job or work activities in the first five years after you graduate?**	**EMS**	**16-17**	**Not Important**	**Slightly Important**	**Moderately Important**	**Very Important**	**Extremely Important**	**I Prefer not to Answer**
	Searching out new technologies, processes, techniques, and/or product ideas			5.6	5.6	22.2	38.9	27.8	0
	Generating creative ideas			5.6	0	33.3	22.2	38.9	0
	Promoting and championing ideas to others			5.6	0	22.2	50	22.2	0
	Investigating and securing resources needed to implement new ideas			5.6	0	27.8	38.9	27.8	0
	Developing adequate plans and schedules for the implementation of new ideas			5.6	0	27.8	44.4	22.2	0
	Selling product or service in the marketplace			5.6	10.5	33.3	33.3	16.7	0
	How important is it to you to be involved in the following job or work activities in the first five years after you graduate/next five years?	**EMS**	**16-17**	**Not Important**	**Slightly Important**	**Moderately Important**	**Very Important**	**Extremely Important**	**I Prefer not to Answer**
	Designing a new product or project to meet specified requirements			5.6	11.1	33.3	50	0	0
	Conducting experiments, build prototypes, or construct mathematical models to develop or evaluate a design			5.6	5.6	33.3	55.6	0	0
	Developing and integrating component sub-systems to build a complete system or products			5.6	0	55.6	38.9	0	0
	system			11.1	0	38.9	50	0	0
	Troubleshooting a failure of a technical component or system			11.1	0	50	38.9	0	0
	How likely is it that you will do each of the following in the first five years after you graduate?	**EMS**	**16-17**	**Definitely Will Not**	**Probably Will Not**	**Might or Might Not**	**Probably Will**	**Definitely Will**	**I Prefer not to Answer**
	Work as an employee for a small business or start-up company			5.6	11.1	55.6	22.2	5.6	0
	Work as an employee for a medium- or large-size business			5.6	0	27.8	61.1	5.6	0
	Work as an employee for a non-profit organization (excluding a school or college/university)			5.6	11.1	44.4	33.3	5.6	0
	Work as an employee for the government, military, or public agency (exclusing a school or college/university)			5.6	5.6	38.9	44.4	5.6	0
	Work as a teacher or educational professiona in a K-12 school			16.7	22.2	38.9	16.7	5.6	0
	Work as a faculty member or educational professional in a college or university			16.7	16.7	44.4	16.7	5.6	0
	Found or start your own for-profit organization			5.6	11.1	55.6	11.1	16.7	0
	Found or start your own non-profit organization			5.6	16.7	44.4	22.2	11.1	0
	How likely is it that your work will involve engineering (e.g., engineering practice, research, management, or sales) in…	**EMS**	**16-17**	**Definitely Will Not**	**Probably Will Not**	**Might or Might Not**	**Probably Will**	**Definitely Will**	**I Prefer not to Answer**
	The first year after you graduate			5.6	5.6	27.8	27.8	33.3	0
	Five years after you graduate			5.6	0	16.7	38.9	38.9	0

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	Ten years after you graduate			11.1	0	11.1	27.8	50	0
	How likely is it that you will enter graduate school in the first five years after you graduate?	**EMS**	**16-17**	**Definitely Will Not**	**Probably Will Not**	**Might or Might Not**	**Probably Will**	**Definitely Will**	**I Prefer not to Answer**
	Graduate school			10.5	1	15.8	50	22.2	0
	Generally speaking, how PREPARED do you think you are to pursue your preferred first position after graduating with your bachelor's degree(s)?	**EMS (PEPS)**	**16-17**	**Extremely Unprepared /Moderately Unprepared**	**Slightly Unprepared**	**Neither Prepared nor Unprepared**	**Slightly Prepared**	**Moderately Prepared**	**Extremely Prepared**	**I Prefer not to Answer**
	Preparation			0*	5.6	5.6	27.8	50	5.6	5.6
	Generally speaking, how SUCCESSFUL do you think you will be in obtaining your preferred first position after graduating with your bachelor's degree(s)?	**EMS (PEPS)**	**16-17**	**Unsuccessful/Slightly Unsuccessful**	**Moderately Unsuccessful**	**Neither Successful nor Unsuccessful**	**Slightly Successful**	**Moderately Successful**	**Extremely Successful**	**I Prefer not to Answer**
	Success			0*	5.6	0	22.2	50	10.5	10.5
	Rate how much you agree with the following statements	**URSSA**	**16-17**	**Strongly Disagree**	**Disagree**	**Agree**	**Strongly Agree**		
	Doing research confirmed my interest in my field of study			7.1	0	28.6	64.3		
	My resume has been enhanced by my research experience			0	0	21.4	78.6		
	My research expreience has prepared me for graduate school			0	28.6	28.6	42.9		
	My research expreience has prepared me for a job			0	7.1	57.1	35.7		
5a: Gains on measures of self-perceptions, attitudes, and skills related to research from URSSA survey and interviews	**How much did you GAIN in the following areas as a results of your most recent research experience?**	**URSSA**	**16-17**	**No Gains**	**A Little Gain**	**Moderate Gain**	**Good Gain**	**Great Gain**	**Not Applicable**
	Confidence in my ability to do research			0	0	28.6	28.6	42.9	0
	Understanding what everyday research work is like			0	0	7.1	42.9	50	0
	During your research experience HOW MUCH did you….	**URSSA**	**16-17**	**None**	**A Little**	**Some**	**A Fair Amount**	**A Great Deal**	**Not Applicable**
	Engage in real-world science research			7.1	0	7.1	42.9	42.9	0
	Feel like a scientist			0	0	14.3	35.7	50	0

Note: 19 participants for the EMS
Note: 14 particpants for the URSSA