

Welcome to AIMS² 2.0(HSI-STEM Grant)

Bridging the Gap: Enhancing AIMS² for Student Success



S. K. Ramesh, Ph.D.
Project Director and Professor of ECE

EU Commons
Aug 31, 2018



Disclaimer

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AGENDA

- Welcome and Introductions
- Overview of program – Dr. Ramesh, Project Director
- Activities
 - Cohort Meetings w/faculty mentors
 - Tutoring/Mentoring
 - Research Projects for Cohort Students
- Panel Discussion with Peer Mentors
- View AIMS² Video for 2018 Examples of Excelencia Finalist
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- Questions



Project Web Site

www.ecs.csun.edu/aims2



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The AIMS² Project team (2016-21) **Attract, Inspire, Mentor, and Support Students**



Faculty and Staff from CSUN and partner Colleges



• Cohort 5



- Cohort based model
- Collaboration between CSUN and CCC's
- High Transfer Achievement
- GPA, Persistence, and Graduation
- Served over 240 transfer students (approximately 67 % Latino/a).

For more information

Visit www.ecs.csun.edu/aims2

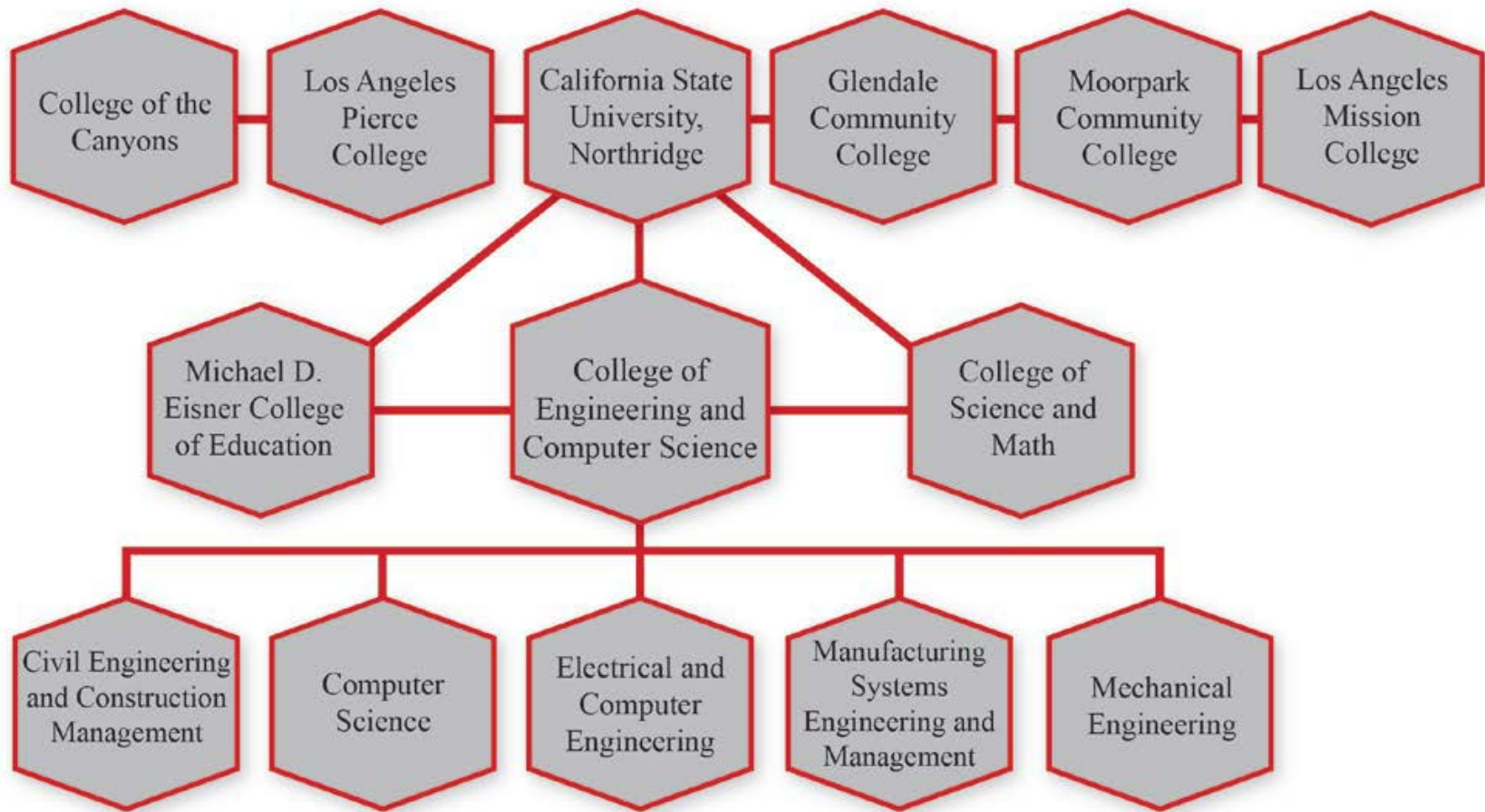


WHITE HOUSE INITIATIVE
on EDUCATIONAL EXCELLENCE for HISPANICS
25 Years of Fulfilling America's Future

AIMS² Program – Nationally recognized

Funded by USDE : 2011-2016 (\$ 5.5 M), 2016-2021 (\$ 6 M)





Organization – Bridging the Gap: Enhancing AIMS² for Student Success





Student Selection : CSUN

- To be eligible, STEM majors must be an individual who has faced or faces social, cultural educational or economic barriers to careers in STEM and be a US Citizen or Permanent Resident.
- Online application
- **Enroll and complete a minimum of 24 units/year and pass all courses with grades of C or better**
- All students eligible to receive bi-annual textbook awards of \$ 500 (at the end of fall/spring semesters) upon meeting requirements
- Selected students eligible to participate in paid UG research activities (30-32/year)
- Tutors and Peer Mentors (Up to 10/year)



Column1	Year 1	Year 2	Year 3	Year 4	Year 5	Total funded over 5 Years
FTF	20	20	20	10		
Running Totals	20	40	60	70	70	260
FTT	30	30	30	30		
Running Totals	30	60	60	60	30	240
Annual	50	100	120	130	100	500

- Year 1 FTF cohort in spring 2017 (from FTF who entered in fall 2016)
- Year 1 FTT cohort in Jul 2017 (from eligible continuing students on 2011 grant)
- Year 2 FTF and Year 2 FTT cohorts in Aug-Sep 2017 (from FTF and FTT entering CSUN in fall 17)
- Year 3 FTF and Year 3 FTT cohorts in Aug 2018 (from FTF and FTT entering CSUN in fall 18)



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Major activities in AIMS² grant

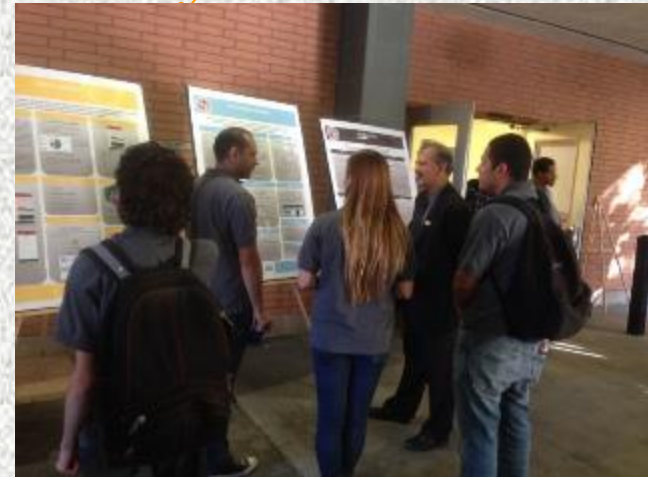
- Tutoring
- Mentoring (Faculty and Peer Mentoring)
- Undergraduate research



Student-Faculty Interaction



- Resume Workshops
- Tech Fest preparation
- Research Presentations
- Attending conferences
- Annual AIMS² Research Symposium



- Student mentors
- Student tutors
- Weekly/biweekly meetings
- Meetings via appointments
- Advising
- Maintain minimum requirements for scholarship



*** 2018 ***
AIMS²

Attract Inspire Mentor and Support Students Skills Workshop

Session 1: July 23rd – July 25th, 2018

Freshmen Students Workshop Schedule

Location: University Student Union – Thousand Oaks Room



Monday	Tuesday	Wednesday
9:00 AM - 9:30 AM Welcome Remarks		9:00 AM - 10:15 AM Final Competition
9:30 AM - 10:30 AM Ice Breakers Cards to the Sky Exercise		10:15 AM - 10:45 AM Students Present Their Project
10:30 AM – 10:45 AM 15-Minute Break		10:45 AM - 11:00 AM Competition Results Declared & Recap of Lessons Learned
10:45 AM - 12:15 PM What Is Engineering? Careers in Engineering	9:00 AM - 12:00 PM Campus Tour: Including Library and Engineering Labs	11:00 AM – 11:15 AM 15-Minute Break
12:15 PM - 1:15 PM Lunch	12:00 PM - 1:00 PM Lunch	11:15 AM - 12:00 PM Entrepreneurial Minded Learning
1:15 PM - 2:15 PM Growth Mindset	1:00 PM - 2:15 PM Team Building Skills	12:00 PM - 12:15 PM How To Stay Connected In Year 1
2:15 PM - 3:15 PM Resources to Succeed at CSUN	2:15 PM – 2:30 PM 15-Minute Break	12:15 PM - 1:00 PM Lunch/Survey
	2:30 PM - 3:30 PM Engineering Ethics	1:00 PM – 2:00 PM Focus Groups
3:15 PM - 4:00 PM Closing Remarks for Day 1 Filling Out Surveys	3:30 PM - 4:00 PM Closing Remarks for Day 2 Filling Out Surveys	

08/31/18



California State University, Northridge Presents

★ ★ ★ 2018 ★ ★ ★
AIMS²

Attract Inspire Mentor and Support Students Skills Workshop

Session 1: July 26th – July 27th, 2018

Transfer Students Workshop Schedule

Location: University Student Union – Thousand Oaks Room

Thursday	Friday
9:00 AM – 9:30 AM Welcome Remarks	9:00 AM – 10:15 AM Resources to Succeed at CSUN
9:30 AM – 10:15 Expectations When Transferring From Community College To CSUN	10:15 AM – 10:30 AM 15-Minute Break
10:15 AM – 10:30 AM 15-Minute Break	10:30 AM – 11:15 AM Understanding Senior Design Projects
10:30 AM – 11:45 AM Team Building Skills	11:15 AM – 12:00 PM Understanding Your DPR
11:45 AM – 12:45 PM Lunch	12:00 PM – 1:00 PM Lunch
1:00 PM – 4:00 PM Campus Tour (Engineering Labs and Library)	1:00 PM – 1:45 PM Requirements After Transferring
	1:45 PM – 2:45 PM Breakout To Plan Fall Course Schedule
	2:45 PM – 3:00 PM Surveys
	3:00 PM – 4:00 PM Focus Groups



08/31/18

CSUN

CALIFORNIA
STATE UNIVERSITY
NORTHIDGE



Summer 2018 Workshop Images



Peer Tutors Spring 2018

Please contact tutors directly to inquire about assistance for any of your other courses. They are not limited to the courses listed below.

Spring 2018

Last Name	First Name	Position	Email	Dept.	Courses
Espinola	Andrew	Tutor	andrew.espinola-4@csun.edu	CE	ECE240, COMP110, ECE320
Zhang	Dawei	Tutor	dawei.zhang917@csun.edu	CS	COMP110, COMP122, COMP182, COMP262
Clark	Adam	Tutor	adam.clark104@csun.edu	CS	Grad Student
Baultida	Anthony	Tutor	anthony.scott.baultida.659@csun.edu	ME	CE240, ME209
Osterlo	Andrew	Tutor	andrew.osterlo.672@csun.edu	EE	ECE240
Chuang	Alan	Tutor	alan.chuang.29@csun.edu	ME	ME370, CE340, CE240, ECE240, ME222, ME209
Bochen	Robin	Tutor	robin.bochen.22@csun.edu	EE	ECE350, ECE320, ECE340
Abdulkadir	Hareth	Tutor	hareth.abdulkadir.635@csun.edu	EE	ECE240, ECE320, ECE350
Alexan	Alexis	Tutor	alexis.alexan.341@csun.edu		Chemistry
Feng	Xiaoxiao	Tutor	xiaoxiao.feng.642@csun.edu	EE	ECE240, ECE320, PHYS225A,B
Macias	Jose	Tutor	jose.maciasdevila.277@csun.edu	EE	Grad Student
Galea	Joshua	Tutor	joshua.galea.556@csun.edu	EE	ECE350
Barajas	Joel	Tutor	joel.barajas.841@csun.edu	EE	ECE240, ECE350, PHYS
Morales	Ivan	Tutor	ivan.morales.736@csun.edu	EE	ECE240

CSUN|AIMS²

Attract, Inspire, Mentor, and Support Students



HSI SLM Grant Program

Contact Us

College of Engineering and Computer Science

(818) 677-6742
csmesh@csun.edu

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Student Resources

CSUN COHORT 2018 - 2019

AIMS2 BTG – Faculty Mentors for First Time Freshman Cohorts 1, 2, and 3 & First Time Transfer Cohorts 1, 2, and 3

Faculty Mentor	First Name	Last Name	Cohort	START	Major
All Asst	Nourah	Assadourian	T-3	Fall 2018	Mechanical Engineering
All Asst	Marlon	Gian	T-3	Fall 2018	Electrical Engineering
All Asst	Giovani	Martinez	T-3	Fall 2018	Electrical engineering
All Asst	Vicente	Zavala	T-3	Fall 2018	Computer Engineering
All Asst	Elvis	Chino-Ilas	F-3	Fall 2018	Computer Engineering
All Asst	oscar	Isgrer	F-3	Fall 2018	civil engineer
All Asst	Karbelly	Ortiz	F-3	Fall 2018	Mechanical Engineering
All Asst	Freddy	Nunez	F-1	FA2016	Computer Engineering
All Asst	Luis	Rivera	F-2	FA2017	Computer Engineering
All Asst	Miguel	Guerrero	F-2	FA2017	Electrical Engineering
All Asst	Cristian	Mendoza	T-2	FA2017	Electrical Engineering
All Asst	Iran	Joshi	T-2	FA2017	Electrical Engineering
All Asst	Francisco	Ortega	T-2	FA2017	Mechanical Engineering
Answer Alrooni	EMMANUEL	ANALA	T-3	Fall 2018	Civil Engineer
Answer Alrooni	Oscar	Poore	T-3	Fall 2018	Construction management
Answer Alrooni	Mauricio	Rodriguez	T-3	Fall 2018	Construction Management
Answer Alrooni	Juan	Espejo	F-3	Fall 2018	Civil Engineering
Answer Alrooni	Abel	Ofocho	F-3	Fall 2018	Computer Science
Answer Alrooni	Alberto	Santos	F-3	Fall 2018	Computer Science
Answer Alrooni	Edwin	Zelaya	F-3	Fall 2018	Construction Management
Answer Alrooni	SugNa	Ha	F-1	FA2016	Civil Engineering
Answer Alrooni	Alexis	Serra	F-2	SU2017	Civil Engineering
Answer Alrooni	Mohammad	Self	T-2	FA2017	Civil Engineering
Answer Alrooni	Alinea	Baharabadi	T-2	FA2017	Construction Management
Answer Alrooni	Maria	Hernandez	T-2	SU2017	Civil Engineering
Answer Alrooni	Nibiyu	Machacha	T-1	FA2016	Mechanical Engineering
Answer Alrooni	Paul	Cambaro	T-3	Fall 2018	Mechanical Engineering



Meetings with faculty mentors

- Be sure to attend all group meetings with your faculty mentor – **Very Important!!**
- For discipline specific questions you can connect with a faculty mentor from your department/program
- Monitor your progress, study skills, time management etc.,



Peer Mentors

Hareth	Abdalkarim	Electrical Engineering
Alireza	Bahmanabadi	Construction Management
Alan	Cruz	Mechanical Engineering
Joshua	Galeno	Electrical Engineering
Jayshawna	Jones	Manufacturing Systems Engr
Kerstern	Malama	Manufacturing Systems Engr
Cristian	Mendoza	Electrical Engineering
Anthony	Ortiz	Electrical Engineering
Henry	Reed	Computer Science
Tina	Seeholzer	Mechanical Engineering
Alexis	Sierra	Civil Engineering
Omar	Vargas	Electrical Engineering



AIMS²
STUDENT RESEARCH SYMPOSIUM

A woman with short dark hair, wearing a dark blazer over a light blue button-down shirt and dark pants, is pointing her right index finger at a research poster. She is holding a small red booklet in her left hand. The poster is on an easel and features a grid of images and text. A red banner is draped across the top of the poster with the words "ATTRACT", "PEOPLE", "MENTOR", "SUPPORT", and "STUDENTS" in white capital letters. The background shows a hallway with other posters and an "EXIT" sign.

SEP 11TH 2018 | 3:00 TO 7:00 P.M.
USU GRAND SALON

CSUN. | COLLEGE OF ENGINEERING AND COMPUTER SCIENCE

A logo for TEXI (Texas Engineering and Experimentation Institute) with the text "TEXI RESEARCHERS EXAMPLE of EXCELLENCE" in a blue and red box.

CSUN
COLLEGE OF
ENGINEERING AND
COMPUTER SCIENCE



AIMS² STUDENT RESEARCH SYMPOSIUM

September 11, 2018

3:00 - 7:00 p.m.

University Student Union (USU), Grand Salon

CIVIL ENGINEERING & CONSTRUCTION MANAGEMENT

- Study of Building Vibration Responses with Liquid Dampers – Shake Table Experiments and Computer Simulation

COMPUTER SCIENCE

- Evaluating Test Suite Generation Techniques for Introductory Computer Science Assignments
- Analyzing and Verifying Live Network Measurements

ELECTRICAL & COMPUTER ENGINEERING

- Antennas and RF/Microwave Circuits for Electronic Warfare
- Antenna Design and Testing
- Solving Real World Problems by using Intelligent Control Techniques
- Electric Speed Drives and Environment
- Magnetoelectric Effect Wireless Power Links

MANUFACTURING SYSTEMS ENGINEERING & MANAGEMENT

- Corrosion Protection of Steel Pipes/Reinforced Concrete Structures Using Corrosion Inhibitors
- Additive Manufacturing for Lightweight Metal Matrix Nanocomposite
- Closing the Bulk Metallic Glass Data Gap in the Supercooled Liquid Region
- Automated Security Information and Event Management Business Model Canvas
- M³—More Melted Metal
- Hunny: The Virtual Cosmetician
- Commercialization of the Next Generation Airbag for the 21st Century Automobile
- Understanding the Economics of Developing an Affordable 3D Printer for Educational and Recreational Purposes
- Plastic Bag Alternatives

Student Resources

Research Internships

Summer 2018 Research Projects with CSUN Faculty Mentors

Department	Professor	Project Information
Civil Engineering and Construction Management	Dr. Tsang-Ying Hsu	Click here for information.
Computer Science	Dr. Kyle Dewey	Click here for information.
Computer Science	Dr. Vahab Pournazeri	Click here for information.
Electrical and Computer Engineering	Dr. Brad Jackson	Click here for information.
Electrical and Computer Engineering	Dr. Ralfing Li	Click here for information.
Electrical and Computer Engineering	Dr. Bruno Gomes	Click here for information.
Electrical and Computer Engineering	Dr. John Veldosinos	Click here for information.
Manufacturing Systems Engineering and Management	Dr. Behzad Bavarian	Click here for information.
Manufacturing Systems Engineering and Management	Dr. S. Arany Gandhi	Click here for information.
Manufacturing Systems Engineering and Management	Dr. Robert Corcoran	Click here for information.

Fall 2017 - Spring 2018 Research Projects with CSUN Faculty Mentors

Department	Professor	Project Information
Civil Engineering and Construction Management	Dr. Anwar Alkousi	Click here for information.
Civil Engineering and Construction Management	Dr. Tadeh Zarkian and Dr. David Boyajian	Click here for information.
Computer Science	Dr. Vahab Pournazeri	Click here for information.
Computer Science	Dr. Kyle Dewey	Click here for information.
Electrical and Computer Engineering	Dr. Ralfing Li	Click here for information.
Electrical and Computer Engineering	Dr. Bruno Gomes	Click here for information.
Electrical and Computer Engineering	Dr. Sebastian Rengasajan	Click here for information.
Electrical and Computer Engineering	Dr. John Veldosinos	Click here for information.
Manufacturing Systems Engineering and Management	Dr. Behzad Bavarian	Click here for information.
Manufacturing Systems Engineering and Management	Dr. Robert Corcoran	Click here for information.
Manufacturing Systems Engineering and Management	Dr. S. Arany Gandhi	Click here for information.
Manufacturing Systems Engineering and Management	Dr. Bingbing Li	Click here for information.



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2018 Finalist for Examples of Excelencia

<https://www.youtube.com/watch?v=WrhC1p-RCEc&feature=youtu.be>



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Questions?