

***SECURE for Student Success (SfS²)
Core Team Meeting # 5***



S. K. Ramesh, Ph.D., FIEEE
Founding Director SfS² & Professor of Electrical and Computer Engineering



AGENDA

- Welcome and Grant Updates– Ramesh
- Community College Partners
- LA Pierce College – Elizabeth Cheung
- College of the Canyons – Amy Foote
- Project Assessment and Evaluation – Nathan Durdella
- Program Activities (Area Leads)
 - Undergraduate Research – Silvia Carpitella
 - Student Workshops – Sahabul Alam
 - Peer Mentoring – Ricardo Medina
 - Faculty Community of Practice – Rasoul Narimani
- Next Meeting (January 31, 2025)
- Adjourn



Industry Mentors

First Name	Last Name	
Hope	Martinez	RAD
Icess Iana	Nisce	CS
Suzanne	Fisher	ECE
Nataly	Sanchez	ART
Pablo	Cuellar	ART
Jennifer	De Avila	CE
Erin	Hong	ME
Adrian	Gonzalez	CS
Jonathan	Chua	CS
David	Ward	CS
Alex	Rose	CS
Lisa	Sachs	CM
Balaji	Iyer	ECE

Major	Mentors	Mentees
Art	2	6
Comp Sci	5	7
Electrical	2	3
Radiological Sciences	1	2
Mech Eng	1	2
Construction Mgt	1	3
Structural Eng	1	1
	13	24



Sfs²
SECURE for
Student Success

*Getting into
Research –
Sep 20, 2024*



*Seal of Excelencia
– TA Workshop-
Oct 11, 2024*



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Los Angeles Pierce College

- MESA Peer Mentoring:
 - 5 peer mentors (1 of the 5 is a lead mentor)
 - As of 11/8, 81 students have been assigned to a peer mentor this fall
 - Mentor-mentee engagement is being tracked





Los Angeles Pierce College

- Faculty Community of Practice:
 - 2 LAPC faculty applied to part of the 2nd cohort





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College of the Canyons



Fall 24 Activities:

1. Tutoring/AEW's/Counseling Appts
2. Professional Development/Mental Health workshops
3. SACNAS Conference – took 6 students

Spring 25 Planned Activities:

1. Tutoring/AEW's/Counseling Appts
2. Professional Development/Mental Health Workshops
3. Women in Engineering/SUMMA/MESA Student Leadership Conference



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Project Assessment and Evaluation

UPDATES

- Participant database/performance measure data
 - Final call/reminder for all data to be submitted for inclusion in the APR Year 1
- APR Year 1 report and summary sheet drafts
 - In progress: Draft report from IPR narrative + AIMS² APR report template
 - 12/2-12/20: CSUN IR data transmittal and input into draft report with final edits 1/2-1/6/25
- Presentation development for APR Year 1
 - Draft in progress with CSUN IR data to be added
 - Presentation organized by objective and performance measure with in-depth discussion by area leads
 - 12/9-12/20: Individual meetings with area leads to conceptualize presentation roles/slide design/data

UPCOMING & ONGOING WORK

- Year 1 APR final edits and report submission support
 - 1/6-1/10/25: Draft report transmittal to Ramesh for review with edits to follow
 - 1/20-1/24/25: Draft report dissemination to core team with presentation at 1/31/25 meeting
 - Draft report sections related to executive summary, etc. + support for report submission
- Qualitative data analysis for interview/photography from Summer 2024
- CECE survey administration plans (dependent on institutional adoption)
- IRB modifications (as needed)



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Undergraduate Research Program 2024

Feedback from Students

Im considering research more than before. Previously I wanted to work on physical projects, but now im considering research.

It made me realize the vast field that I can go into. It also encouraged me to take at least up to a Masters program in the future.

Opened my horizons and introduced me to higher level course work. I now know what to expect from graduate courses and their rigor.

I plan to continue my degree and apply for more research positions. I found that doing research is very fulfilling in many regards.



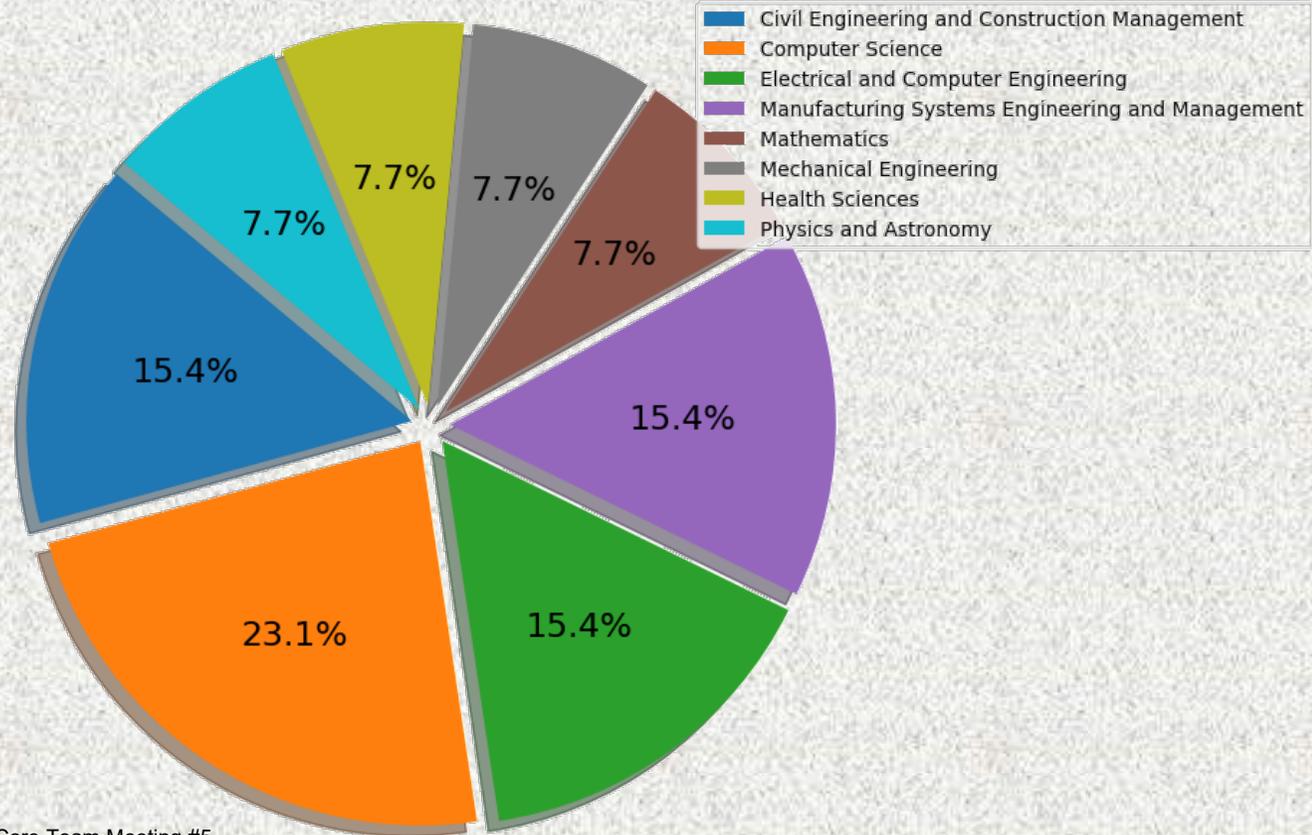
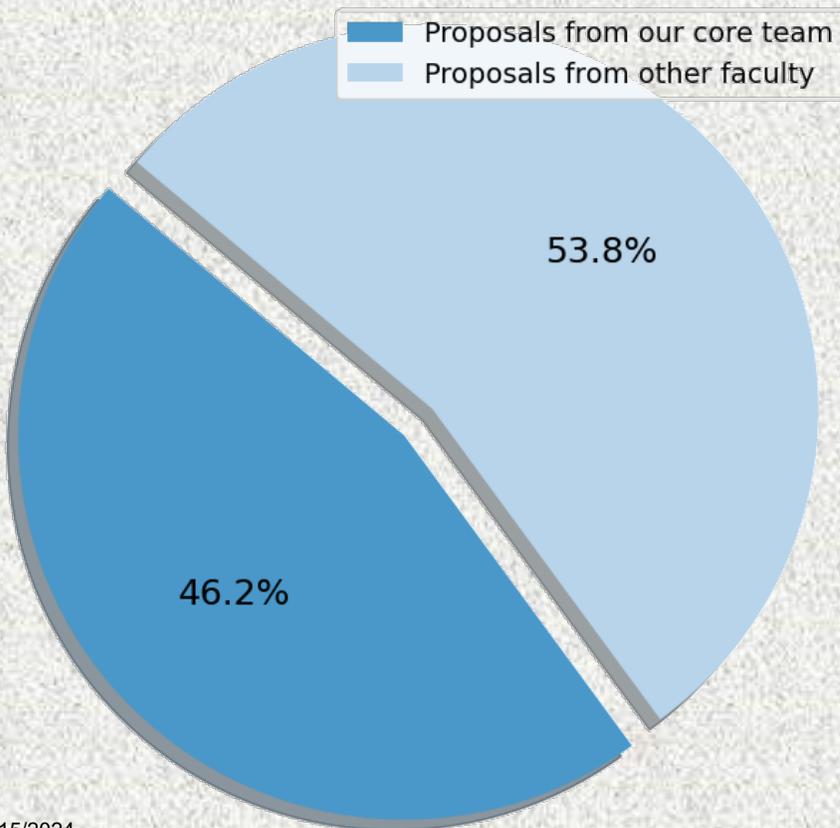
Undergraduate Research Program 2024





Undergraduate Research Program 2025

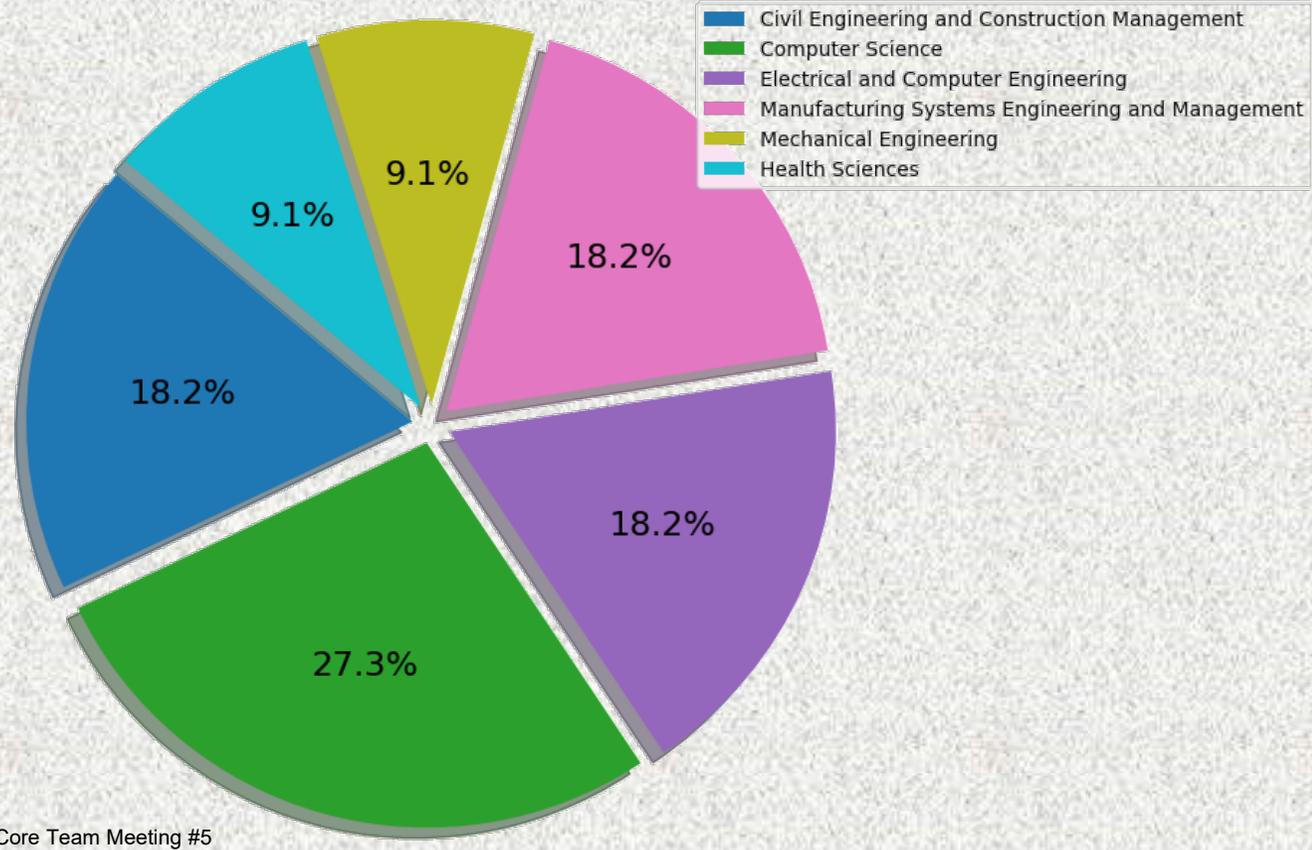
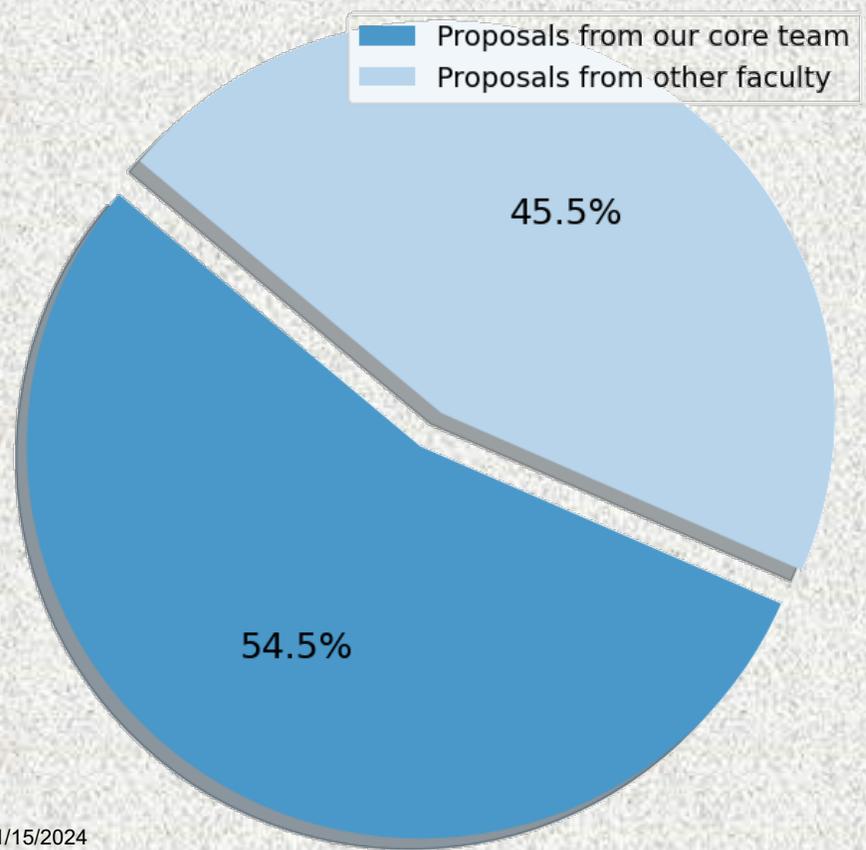
14 Proposals Received





Undergraduate Research Program 2025

12 Projects Selected





Undergraduate Research Program 2025

- 12 projects from 11 faculty mentors have been selected on the basis of how well they could attract the broader spectrum of students with different backgrounds to fit the purpose of our grant.
- Projects information is now available and advertised in our website:
www.ecs.csun.edu/sfs2

Summer 2025 Research Projects with CSUN Faculty Mentors

Project Title	Professor	Project Information
Prediction of Part Manufacturing Costs Using Machine Learning in Machining Processes	Dr. Sepideh Abolghasem	Click here for information.
Improving Durability and Reliability in Phase-Change Memories Using Adaptive Learning Algorithms	Dr. Marjan Asadina	Click here for information.
Obstacle detection, classification, and localization using deep learning and Convolutional Neural Networks (CNN)	Dr. Tohid Sardarmehni	Click here for information.
Reaching consensus in group decision-making for collaborative agreement in business and academic environments	Dr. Silvia Carpitella	Click here for information.
Towards Secure Healthcare IoT Networks: Anomaly Detection Framework for Safeguarding Medical Devices and Patient Information	Dr. Rashida Hasan	Click here for information.
Testing and Improving Low-Cost Electrical Resistivity Tomography (ERT) System	Dr. Ricardo Medina	Click here for information.
Comparative Study of Precast Pretensioned and Post-Tensioned Concrete Girders for Highway Bridges	Dr. Shawn Sun	Click here for information.
Design and Testing of a Simple Digital Communication System using Software-Defined Radio (SDR) N210	Dr. Md Sahabul Alam	Click here for information.
Building an Automated Framework for Analyzing Different Electric Vehicle Load Profiles on Power Electric Grid	Dr. Rasoul Narimani	Click here for information.
Energy-efficient Workload Scheduling in Datacenters	Dr. Xunfei Jiang	Click here for information.
Point-based Approach for 3D Vehicle Detection and Classification for Roadside for Traffic Flow	Dr. Xunfei Jiang	Click here for information.
The Effects of Occupational Dose on Radiographers During Portable Examinations	Dr. Doris Abrishami	Click here for information.



Undergraduate Research Program 2025

- Students will be able to apply via Qualtrics between the beginning of December 2024 and the second half of February 2025. A workshop is planned for Feb 6th. We are currently working on producing the flyer.
- The received applications will be pre-screened to verify eligibility requirements, and then distributed to faculty who will interview and select their students (3 to 5 students).
- Students who are graduating in May are eligible, but with the condition that they have to present at the second edition of the research symposium, to be held in early Fall 2025.
- Selected students will receive official notification by March and two orientation events will be organized for faculty and students, tentatively in early April 2025.
- Practical information about the research internship (June - August 2025) and the research symposium will be available via Canvas at <https://canvas.csun.edu/courses/165228>





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Fall-2024 Student Workshops

Pathway to Career Workshop

STEAM Career DAY Prep and Power-Up

Tuesday September 10, 2024

12:30 PM to 1:45 PM • Thousand Oaks Room, USU

Takeaways

- Got the **inside scoop** on STEAM Career Day happened on 9/24/24
- Discovered **tips for creating a standout resume** that grabs employee's attention
- Learned how to **confidently approach industry professionals** & make a lasting impression
- Explored Career Center Resources

Total Attendees: 62



Fall-2024 Student Workshops

Career Connect Workshop

Shaping Your Personal Brand

Thursday October 31, 2024

12:00 PM to 2:00 PM • Thousand Oaks Room, USU

Panel Discussion with Industry Experts (Moderated by: Dr. Dave Moon & Dr. Alam)

- ❖ **Bala Prasanna, IBM**
- ❖ **Ruby Cisneros, L A Tech**
- ❖ **Nick Longo, Longo Designs Inc.**

Interactive Personal Branding Workshop

Total Attendees: 36



Upcoming Spring-2025 Student Workshops

❖ **Undergraduate Research Workshop**

- **February 06, 2025, from 2:15 PM to 3:45 PM; Venue: TBD**
- Work in collaboration with the Office of Undergraduate Research (OUR)
- How to do research
- Research opportunities for undergraduate students
- Research grants

❖ **Career Development Hands-on Workshop**

- **April 11, 2025, Time & Venue: TBD**
- Collaborate with the Career Center at CSUN
- Get hands-on experience with mock interview and get feedback to improve
- Step-by-step processes for creating an effective resume



Upcoming Summer-2025 Student Workshops

❖ **Onboarding of Transfer Students**

- **August 18, 2025, from 10:00 AM to 12:00 PM; Venue: TBD**
- Collaborate with the CSUN Student Services
- Discover the roadmap to academic success at CSUN
- Learn more about the DPR and degree planner
- Understand academic policy and degree requirements
- Get informed about the available resources



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Peer Mentoring Program

- 50 peer mentors
 - 18 from Spring 2024
 - 32 from Fall 2024 (58 applicants, 41 Invited, 32 accepted)
- Number of mentees grew from 51 (SPR 24) to 171 (FA 24)
 - 120 mentees have been matched with mentors, the rest will be matched once new mentors are onboard
- Mentors are actively meeting with their mentees, logging in their interactions, and reporting flags (potential issues faced by mentees)



Peer Mentoring Program

- **Future plans**
- Spring 2025 – Will invite current mentors to continue
- Spring 2025 – Will get list of juniors and invite new cohort of mentors (based on needs)
- Summer 2025 – Invite new transfer students into the program



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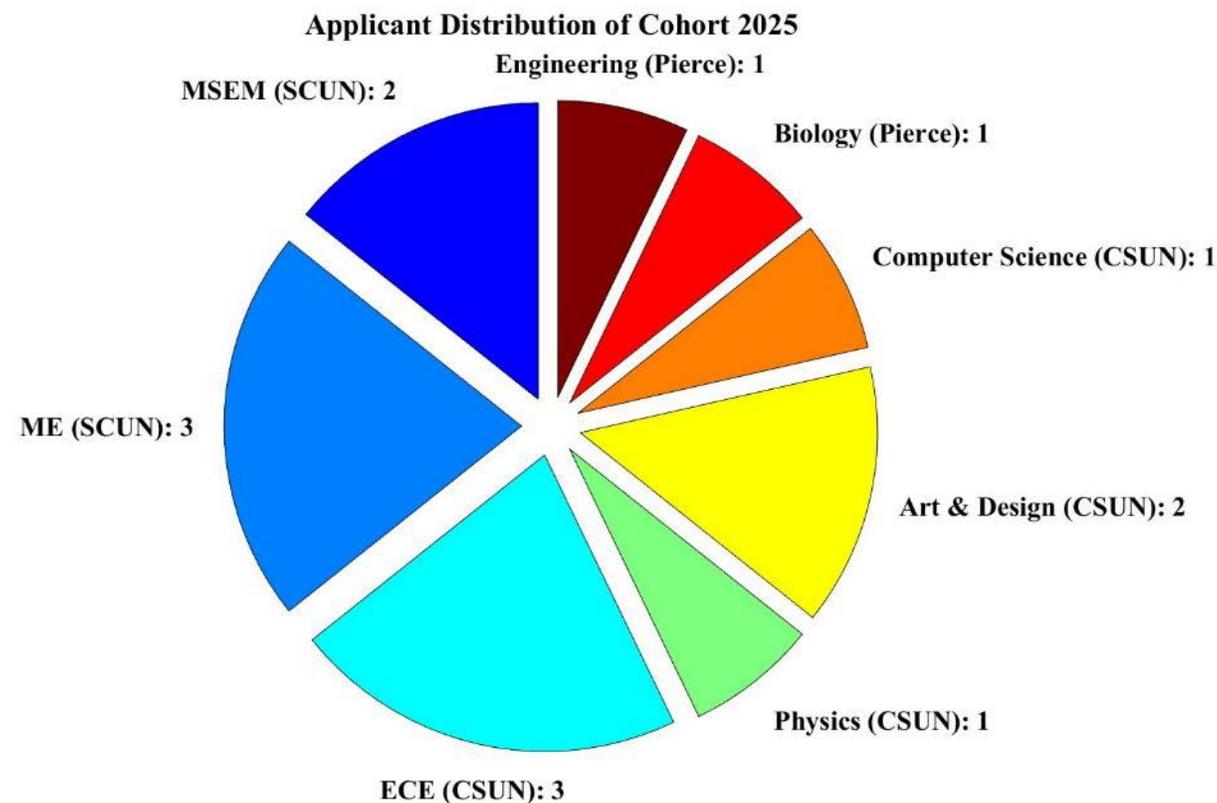


FCOP Activities over the Fall 2024 Semester

Gathering the intervention information for the 2024 Cohort

Recruitment of the 2025 Cohort

Arranging workshops, showcases, and inviting speakers for Spring 2025





FCOP Activities over the Spring 2025 Semester

Cohort orientation Mixer session (Third or Fourth week of January)

First Workshop March 7th (Invited Speaker: Dr. Angela Trego)

Second Workshop and Showcase April 18th (Invited Speaker: Dr. Tahira Reid Smith, Dr. Richard Olawoyin, Dr. Shally Juarez and Diane Delaney)

Third Workshop: Open and Culturally Responsive Framework as a tool for Servingness.
This is a synchronous online class. Date & Time (TBD)





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