

# CSU Council on Ocean Affairs, Science & Technology



**Dr. Kenneth H. Coale Graduate Scholar Awards  
2023-24**

# In the next 30 minutes



- What is COAST?
- Information on awards





# What is COAST?

CSU-wide network of faculty members and students actively working to address critical ocean and coastal issues.





# What does COAST do?

Promotes research and education to advance our knowledge of ocean and coastal systems.



# COAST supports research to advance our knowledge of ocean and coastal systems



**The open and coastal ocean**

# COAST supports research to advance our knowledge of ocean and coastal systems



**Coastal zones (bays, estuaries, beaches)**

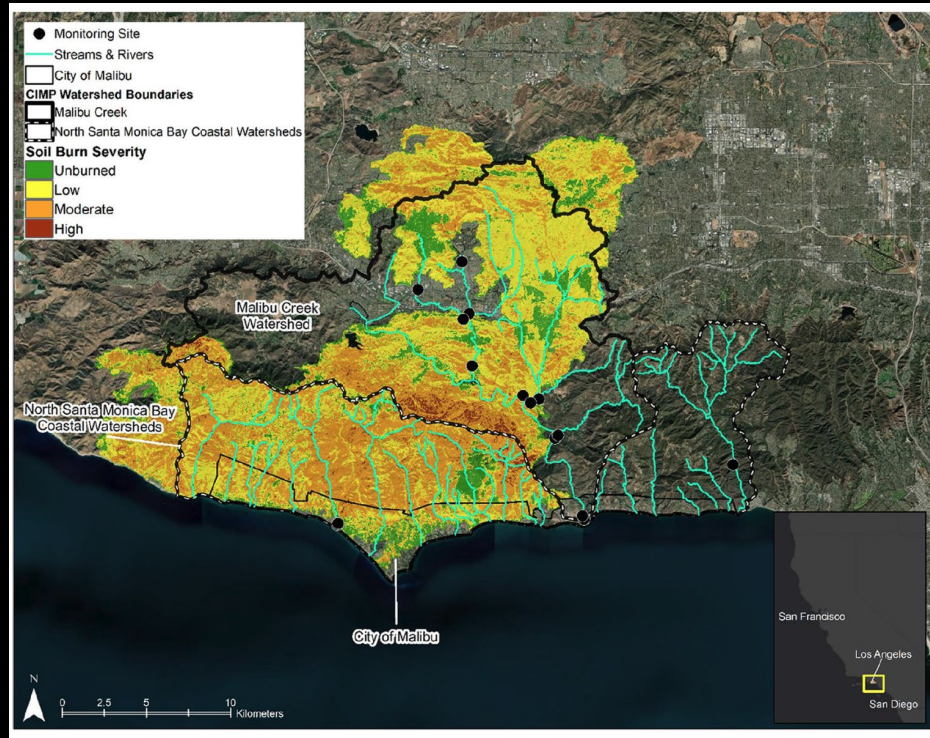
# COAST supports research to advance our knowledge of ocean and coastal systems



## Coastal watersheds



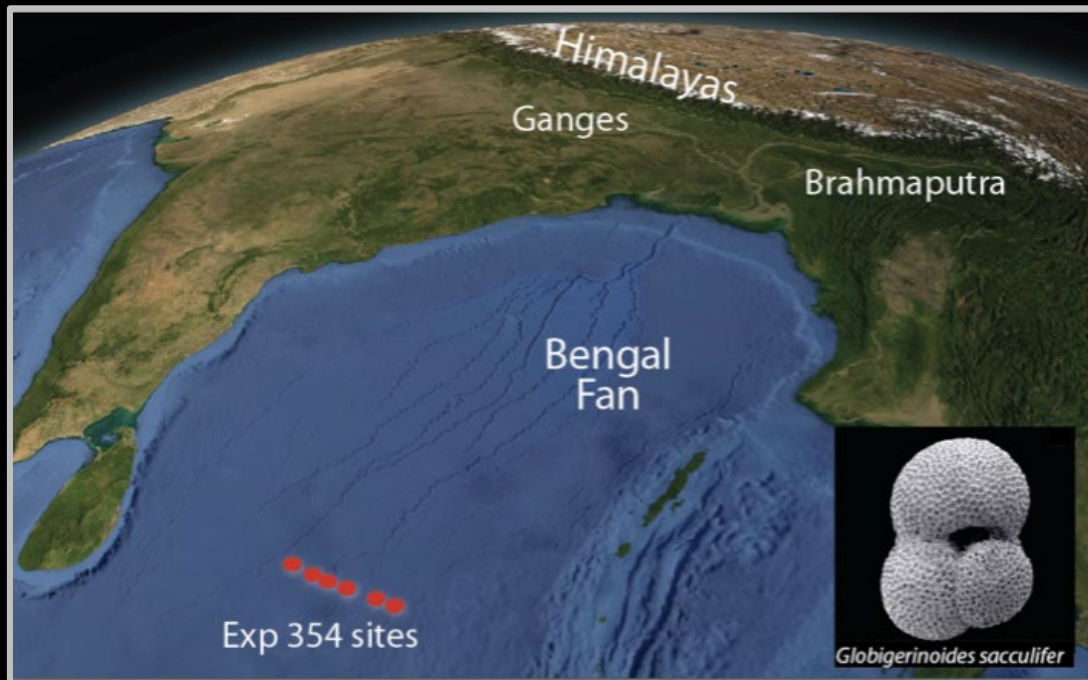
# Criterion for coastal watershed work



The organism, material or process being studied in the watershed has to have a clear and direct impact on the downstream marine environment.



# Work supported by COAST is NOT limited to California





# COAST goals



Advance our knowledge of ocean and coastal resources and the processes that affect them.

Develop innovative solutions to the economic, sociological, ecological and technological challenges that our coastal zone faces.

Promote environmental literacy to foster stewardship and sustainable use of our coast.



# We want you!!!

**COAST is committed to creating a more diverse and inclusive marine and coastal science community.**

Students who are members of groups that have been historically excluded from excluded from marine and coastal science, including students who are Hispanic, Latina/o, Black or African American, Asian, Pacific Islander or Native Hawaiian, American Indian, Alaska Native or a combination of ethnicities; noncitizens; female; LGBTQIA+; first-in-family; economically disadvantaged; veterans; have disabilities are strongly encouraged to apply. Applicants of any race, ethnicity, color, religion, gender, gender identity or expression, sexual orientation, socioeconomic background, immigration status, national origin, age, dis/ability or veteran status **all of our opportunities.**

[https://www.calstate.edu/impact-of-the-csu/research/coast/Pages/Anti-Racism Inclusive Diversity Resources.aspx](https://www.calstate.edu/impact-of-the-csu/research/coast/Pages/Anti-Racism%20Inclusive%20Diversity%20Resources.aspx)



# Stay informed!

## Open Funding Opportunities

- [Dr. Kenneth H. Coale Graduate Scholar Award Program](#)
- [Undergraduate Research Support Program](#)
- [Rapid Response Funding Program](#)
- [Field Experiences Support Program](#)
- [Student Travel Awards](#)
- [Short Course, Workshop, and Symposium Funding Program](#)
- [Seminar Speaker Series Program](#)

More Funding Opportunities

## COAST Announcements

- [NEW! STEM and Social Science NextGen Fellowships for CSU COAST Graduate Students](#)
- [SAVE THE DATE! Entering Mentoring CIMER Training April 11-12, 2024](#)
- [COAST 2023 Annual Meeting Materials](#)
- [2022-27 Strategic Plan now available!](#)

## Get Involved

- [Become a Member](#)
- [Sign up for the Student Email List](#)
- [Sign up for the Faculty Email List](#)



[www.calstate.edu/coast](http://www.calstate.edu/coast)



# Sign Up for the Student Email List

Please sign up here for the COAST student email list. You'll receive periodic emails from COAST about funding, internship and job opportunities.

*The form below only works with Chrome and Firefox browsers. If you are using a different browser or having trouble with sign-up, please contact us at [csucoast@csumb.edu](mailto:csucoast@csumb.edu).*

**Email address:**

**First and last name (required):**

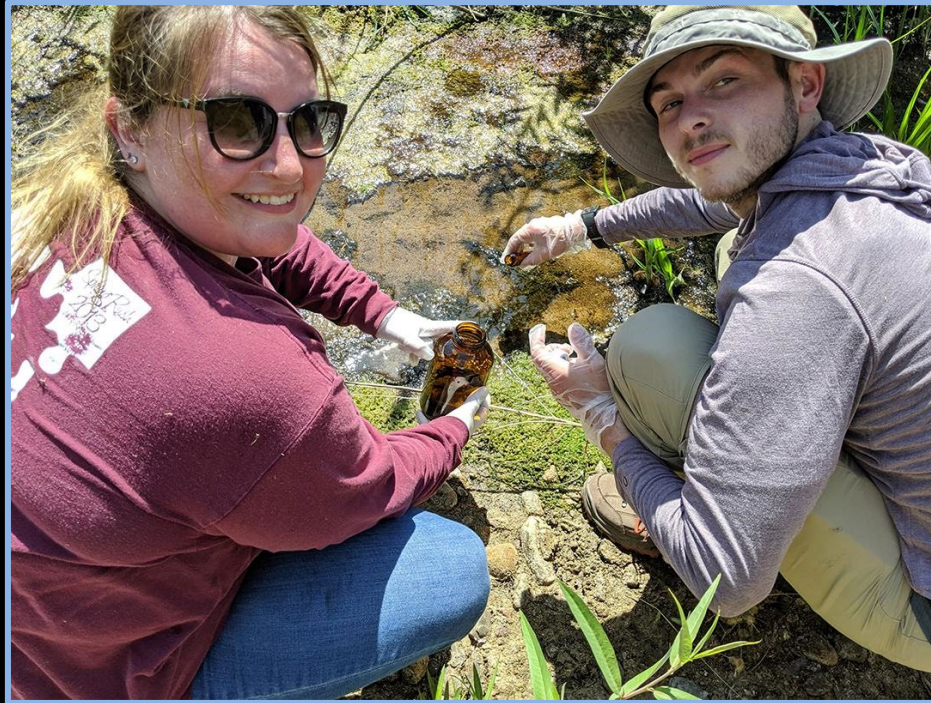
**Subscribe**

# Stay informed!



**csucoast**

# Graduate Scholar Awards



**Deadline: Wednesday, January 24, 2024, 5:00 p.m. PST**



# Dr. Kenneth Coale, 1955-2022



Image courtesy of Susan Coale

Chemical oceanographer who led [IronEx-I and II](#)

Director of [Moss Landing Marine Labs](#)

Instrumental in establishing COAST





# Graduate Scholar Awards

- \$4,000 awards to graduate students conducting marine, coastal and coastal watershed research
- Plan to make ~50 awards this year





# Timeline

Date	Activity
Sept. 19, 2023	Announcement released
January 24, 2024	Applications due by 5:00 P.M. PST
Feb. - April 2024	In review
Late April 2024	Earliest notification
May 15, 2024	Project start date
Dec. 2, 2024	Post-award reports due



# Complete application includes

1. Application form
  - Includes **Advisor Sign-Off Form**
2. Letter of recommendation from CSU faculty member (**Advisor**)
3. Departmental Commitment Form (for some applicants)





# Application form required items

- Keywords
- Budget summary

<b>Budget Summary (must add up to \$4,000)</b>	
Award amount directly to awardee (through financial aid):	<input type="text"/>
Award amount to Department (DCF required for department funding):	<input type="text"/>



# Application form required items

- Keywords
- Budget summary
- Suggested reviewers
  - Must be from the CSU
  - May not be from home campus, members of committee, potential conflict of interest (COI)



**Committee Members (Required)**

Name	Department	Campus

**CSU Suggested Reviewers (Required): Suggested reviewers must be from the CSU. Do not suggest any reviewers from your campus or reviewers with a potential conflict of interest.**

Name:		
CSU Campus:		
Department:		
Email:		



# NEW(ish) Requirement

- **Advisor Sign-Off Form** required for ALL applications
  - Encourages you to engage with your CSU Advisor as you develop your application
  - Indicates Advisor has reviewed your application, provided guidance and input, and approved it for submission
  - Found at the end of the Application Form
  - NOT a substitute for a LOR



**Dr. Kenneth H. Coale Graduate Scholar Awards  
AY 2023-2024 Advisor Sign-Off Form**

To encourage you to engage with your CSU Advisor as you develop your application, **we require this form for all applications submitted to the Dr. Kenneth H. Coale Graduate Scholar Awards Program.** By signing this form, your advisor indicates that they have reviewed your application, provided guidance and input, and approved it for submission. All information except signatures must be typed. Electronic signatures are acceptable. **Please note:** A signature is required from your advisor on this **Advisor Sign-Off Form** in the **PDF version** of your application that you submit (the word document does NOT need to be submitted with a signature)

**Please note: this form is NOT a substitute for a letter of recommendation (LOR). Your Advisor must submit your LOR to [gradletter@share.calstate.edu](mailto:gradletter@share.calstate.edu) separately.**

<b>Applicant Name:</b>			
<input type="text"/>			
<b>CSU Advisor Information:</b>			
Name:	<input type="text"/>	Phone:	<input type="text"/>
Department:	<input type="text"/>	Email:	<input type="text"/>
<i>I have reviewed my student's application and provided guidance and input. My signature below indicates my approval of the application.</i>			
CSU Advisor Signature:	<input type="text"/>	Date:	<input type="text"/>



# Project description (65 pts)



- Product of your own work
- Advisor should provide input and feedback
- See examples of highly ranked applications from previous years





# AY 2023-2024 Dr. Kenneth H. Coale Graduate Scholar Awards

**Award Amount: \$4,000**

**Application Deadline: Wednesday, January 24, 2024, 5:00 p.m. PST**

In honor of [Dr. Kenneth H. Coale](#), a pioneer and leader in ocean science whose legacy will live on for decades.

## Section Links

[Program Description](#) | [Eligibility](#) | [Application Materials and Instructions](#) | [Letter of Recommendation](#) | [Award Conditions and Details](#)  
| [Important Financial Aid and Tax Liability Information](#) | [Examples of Highly Ranked Applications](#)

**Please read this entire Award Announcement in detail BEFORE you apply for this opportunity to ensure you are applying correctly and following all instructions. Incorrectly submitted applications will not be reviewed.**

Application Timeline		
Date	Activity	Relevant Details
Sept. 19, 2023	Announcement released	
October 16, 2023	Pre-recorded informational webinar released	A pre-recorded informational webinar and slides will be available by October 16, 2023.
October 25, 2023	12:00 - 1:00 pm Virtual office hour session #1	More details, including how to access the zoom room, will be included here soon.
December 1, 2023	10:00 - 11:00 am Virtual office hour session #2	More details, including how to access the zoom room, will be included here soon.
January 24, 2024	Applications due by 5:00 P.M. PST	- ALL materials MUST be submitted by the deadline as attachments in ONE email to <a href="mailto:graduate@share.calstate.edu">graduate@share.calstate.edu</a> .  - Letters of Recommendation must be submitted directly from CSU Advisors to <a href="mailto:gradletter@share.calstate.edu">gradletter@share.calstate.edu</a> by the deadline.



## Project description (65 pts)

- Avoid the use of jargon and highly technical terms without explanation.
- Project description must make clear how your proposed activities relate to marine, estuarine, coastal, or coastal watershed environments, organisms or issues.
  - For coastal watershed work, the organism, material or process being studied in the watershed must have a **clear and direct impact on the downstream marine environment.**



Project description component	Points
Clear description of the project, its goals and significance	30
Statements sufficiently referenced	5
Use of original, peer-reviewed literature, both foundational and current	5
Clearly stated hypotheses or objectives	5
Experimental design and methodology	15
Data analysis plan	5

# Project description: 1,500-word limit

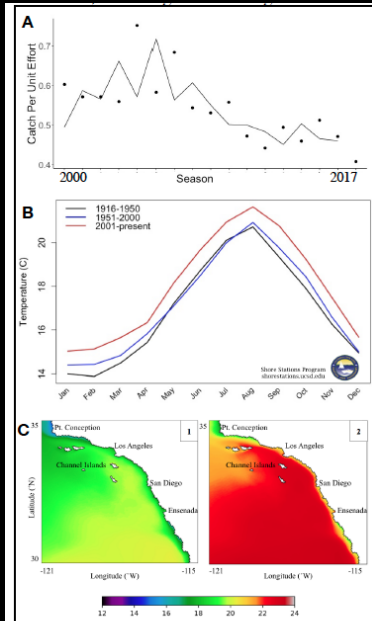


Figure 1 (A) CA spiny lobster catch-per-unit-effort. Fitted line represents 2-year moving average. Data from CDFW. (B) Scripps Pier Average Monthly Surface Temperature 1916 to present. (C) Figure 3A. Average SST (°C) of the SCB in the recent past (1; 1980-2010) and near-future (2; 2075-2100). Created from output of a Regional Ocean Modeling System informed by a Community Earth System Model (RCP 8.5) using data from the National Center for Atmospheric Research.

Does land use in a deforested, recently regenerated, and old growth forest affect hydrologic discharge?			
Hydrologic Components	Deforested land	Reforested (10-30 year forest)	Old Growth (100+ year old forest)
<i>Remote Sensing</i> <ul style="list-style-type: none"> <li>Ground truth Landsat Satellite data</li> <li>Quantify land use changes over time</li> </ul>			
<i>Atmospheric precipitation</i> <ul style="list-style-type: none"> <li>Local monitoring- rain gauges, precipitation collectors</li> <li>Regional monitoring- Instituto Oceanografico de la Armada</li> </ul>			
<i>Evapotranspiration (water pathway out of the system)</i> <ul style="list-style-type: none"> <li>Sap flow meter- radial sap velocity</li> <li>Species specific vegetative water source</li> </ul>			
<i>Soil infiltration (water pathway on the ground)</i> <ul style="list-style-type: none"> <li>Particle size distribution</li> <li>Soil moisture &amp; hydraulic conductivity</li> </ul>			
<i>Soil recharge at depth (water pathway through the unsaturated zone)</i> <ul style="list-style-type: none"> <li>Soil moisture</li> <li>Soil compaction</li> </ul>			
<i>Geology</i> <ul style="list-style-type: none"> <li>Identification of bedrock/saprolite</li> </ul>			
<i>Ground water fluctuation and stream flow</i> <ul style="list-style-type: none"> <li>Groundwater wells with water level loggers</li> <li>Surface water level loggers</li> </ul>			

Text in figures and tables counts

# 1,500-word limit



In addition, the pups that were found had a lower body mass (Elorriaga-Verplancken et al. 2016). This study also did not address the ability to date the isotope values on the pup fur, so it must be inferred that the isotopes reflect current prey availability and not a series of points that could be offered from analyzing vibrissae. Other studies have looked at the change in isotope values over time using vibrissae, but focused on Stellar Sea Lions and compared values of a pup before and after weaning rather than the diet change of an adult after disturbance (Stegall et al. 2008). There are no prominent studies that compared the change in diet over time using isotopes, rather the most developed study in this direction looks at the isotopes before and after disturbance (Elorriaga-Verplancken et al. 2016). Although this gives valuable insight into the dietary shift, it excludes the time of the shift and its overlay with the time of surface temperature increase. Some of the fecal studies did compare the solids that were found, such as cephalopod beaks or oiliths (Garcia-Rodriguez and Auriol-Gamboa 2004), but these compared what was found at different time steps rather than a continuous time comparison. My proposed study will fill the gaps in this knowledge; the stable isotope analysis of the vibrissae eliminates the need to tag animals and provides a more accurate timeline to when the shift in diet occurred. This allows us to overlay the isotope values with SSTA index and highlight at what point [1500-word limit reached, rest of Project Description redacted]

Slightly over limit

# 1,500-word limit



of 70 cm and collecting samples for determination of composition. Particle size analysis will be preformed at the US Forest Service Pacific Southwest Research Station When saprolite or bedrock is reached, and a sample is able to be collected, it will be shipped back to the Geology Department at [redacted] where rock type and mineralogy can [1500-word limit reached, rest of Project Description redacted]

[Redacted text block]

>300 words over limit

# 1,500-word limit



Using a tested deck spawning protocol, I will induce three ripe male and female *M. rufescens* to broadcast spawn. I will try to time the induction to synchronize the male and female gamete release. To test if the gametes are viable I will collect eggs into a known volume of sea water and fertilize them with an appropriate sperm concentration. I should see evidence of fertilization in less than 20 minutes as sperm pierce the egg [1500-word limit reached, rest of Project Description redacted]

3 Form continued on next page

[Redacted text block]

>800 words over limit



# Timeline (10 pts)

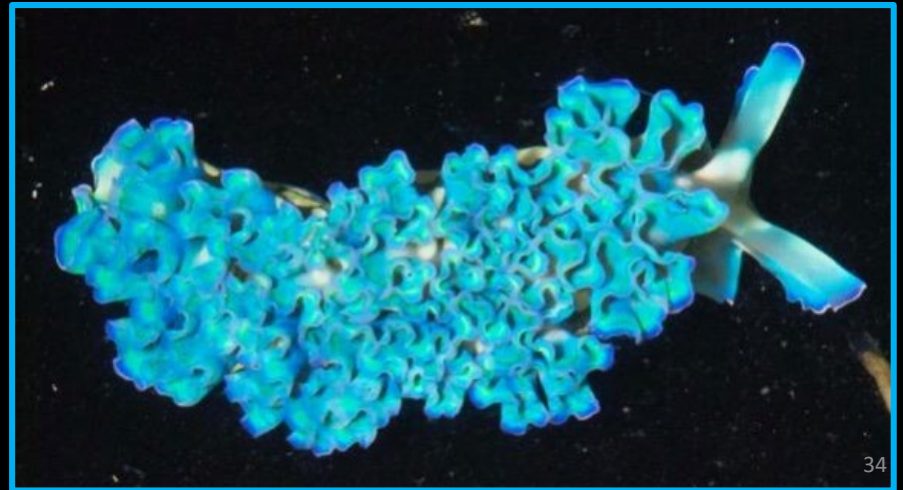


- Clear plan for use of award beginning May 15, 2024
  - Can reference activities prior to 5/15/2024 but funds cannot be used for anything before that date
  - Requests for funds for expenses or work done prior to start date will result in your application being returned without review
- Interim milestone dates
- Anticipated graduation date



## Need for Research (7 pts)

- Clearly articulate the scientific need for your research
  - How will your work contribute to the advancement of your field?
  - What intellectual contribution will your expected results make?





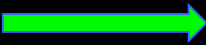

## Relevance to California (3 pts)

- Work supported NOT limited to CA
  - Priority to projects applicable to CA needs
- Describe how research is relevant to CA



# Budget and Justification (15 pts)



- Construct your own!
  - Budget template provided
    - Remember to delete example text
- Research support  Your department
  - You need a Departmental Commitment Form
- Living expenses  Financial aid office
  - Unqualified scholarship
  - Taxable
  - Financial aid impact





### Budget and Justification (15 points total)

Example Budget (to use this format, erase the content below and add additional rows as necessary; alternatively, you are welcome to create your own table):

Item/Description	Unit Price	Quantity	Amount to Awardee (via Financial Aid)	Amount to Department
Pole spear bands	\$4.50	5	-	\$22.50
Small vessel hours	\$30.00/hour	12	-	\$360.00
Nitrile gloves (200/box)	\$30.00	3	-	\$90.00
Vials for otolith storage (144/box)	\$98.00	2	-	\$196.00
Radioisotope analysis at UC Davis	\$99.00/sample	10	-	\$990.00
3 $\mu$ m silicon carbide abrasive polishing film for otolith sectioning (25-count)	\$81.50	1	-	\$81.50
Living Expenses (2 months)	-	-	\$1260.00	
Tuition	-	-	\$1,000.00	
<i>Subtotals:</i>			\$2,260.00	\$1,740.00
<b>Grand Total</b>			<b>\$4,000.00</b>	



# Living Expense Justification

- Requests for personal living expenses and/or tuition are equal in merit to requests for research-related expenses.
- Explain HOW the award will help you in detail
  - Rent
  - Monthly living expenses
  - Child care
  - Tuition
- What will this award allow you to do that wouldn't otherwise be possible?
  - E.g., reduce your hours at an unrelated job and therefore make progress toward your degree more quickly



# When do you need a Departmental Commitment Form ?

- If you are requesting that any part of your award go through your Department, you need a DCF
- If you are requesting that your entire award go through Financial Aid, you DO NOT need a DCF





# Letter of Recommendation

- Discuss letter with your advisor
  - Ensure they will write a strong, detailed letter
    - Value of your project
    - Your ability to conduct and complete the work
- Your responsibility to ensure it is submitted **ON TIME**
  - Advisor will submit directly to COAST





# Application Submission

- Submit both the .docx and .pdf application files.
- Within one hour of application submission, you will receive a confirmation email from COAST. Please save this email for future reference!
  - If you do not receive a confirmation email, please contact COAST immediately to ensure your application was received.
  - If you receive more than one confirmation email, save all of them.



# Financial aid considerations

- Any funding made available to you through Financial Aid could lead to a decrease in other forms of financial assistance



- Consult with a campus financial aid officer prior to accepting any support offered through this program



# Virtual Office Hours

- October 25, 2023
  - 12:00 - 1:00 pm
- December 1, 2023
  - 10:00 - 11:00 am





# Contact Information

**Kim Jassowski**

[kjassowski@csumb.edu](mailto:kjassowski@csumb.edu)

**Dr. Krista Kamer**

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[www.calstate.edu/coast](http://www.calstate.edu/coast)