

# Bridges to the Baccalaureate: Summer Research Experience



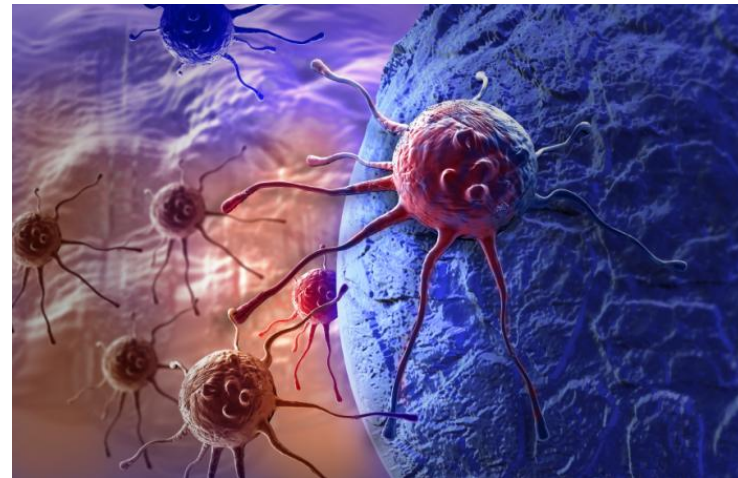
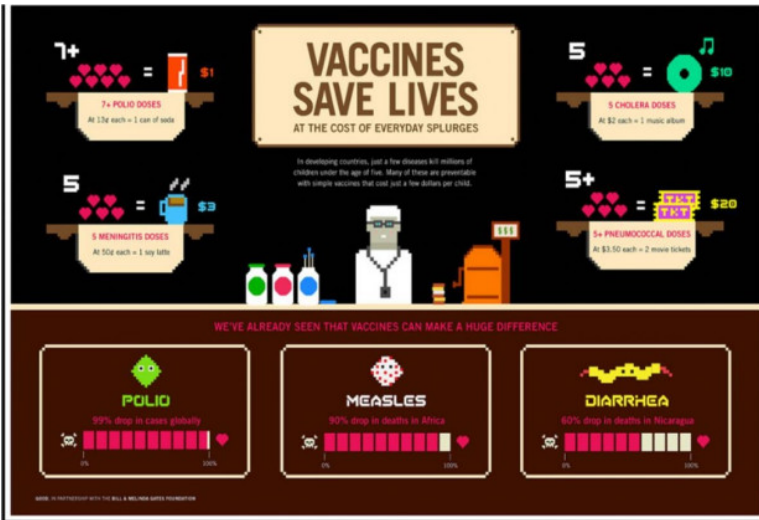
An Ongoing Educational Partnership:

**California State University, Long Beach  
Cerritos College  
Long Beach City College**

# What is research?

- A study or process created in order to find support for a hypothesis or answer a specific question.
  - Example: Cancer; renewable resources; DNA structures
- Learning what has been done already
- Follow a series of steps - protocol (your own or past)
- Finding new meaning and/or developing unique solutions to your specific question
- Exploratory, collaborative, replicative, AND FUN!

# What has research given us?

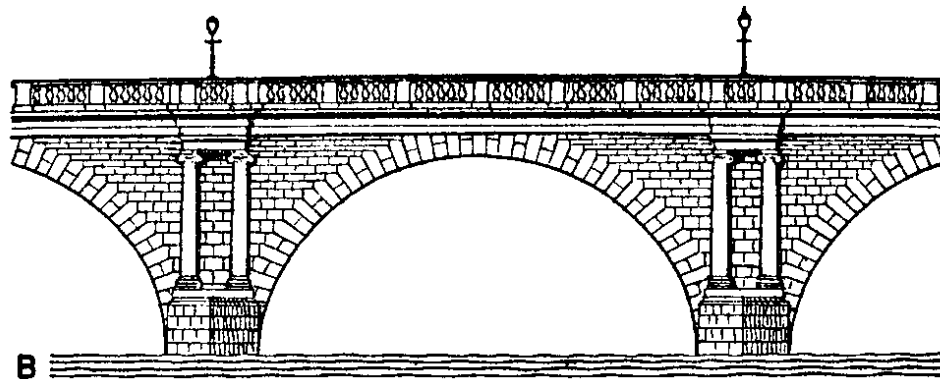


# Why do research?

- Help us understand how science really works
- Open up your mind (and pathways)
  - Academia, Industry, Health Professions, Zoologist, Epidemiologist, etc.
- Apply your academics and build experience

# What is the Bridges Program?

- A research program of the National Institutes of Health (NIH)
- Supports Community College Students from Cerritos College & LBCC interested in the biomedical research field.
- Housed under the Student Access to Sciences and Mathematics (SAS) Center at CSULB



# What is the Bridges Program? (2)

## ■ Objectives

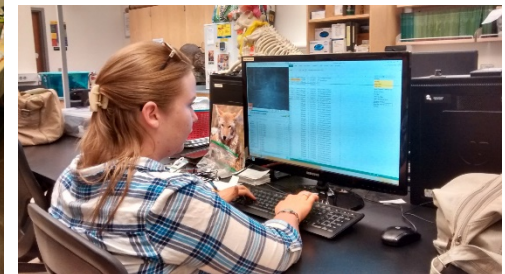
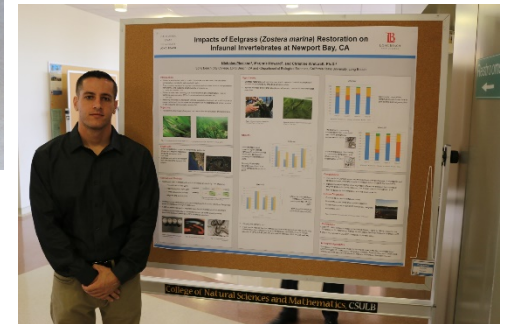
- Provide research experience to community college students
- Help students complete their Baccalaureate degrees
- Provide opportunities to apply to graduate school

# What do you gain?

- Exposes you to practical uses of science; applying the theory covered in course curriculum
- An opportunity to create **original work** or contribute to on-going work with faculty members
- General skills towards a career in research
- A mentored, self-directed in a hands-on scientific lab research

# Program Details

- 8.5 week summer research experience
- Field trips to private and public research facilities
- Present at a Research Symposium
  - Share your research with the community!
- Directed mentoring from faculty
- Enhanced advising from program personnel
- Social activities





# Program Details (2)

- Professional Development
  - Resume/Curriculum Vita
  - Public Speaking
  - Scientific Writing
  - How to Read Scientific Articles
  - Transfer Applications
  - Adjusting as a Transfer Student
  - Scientific Process
  - ...AND SO MUCH MORE!!!

# When it happens...

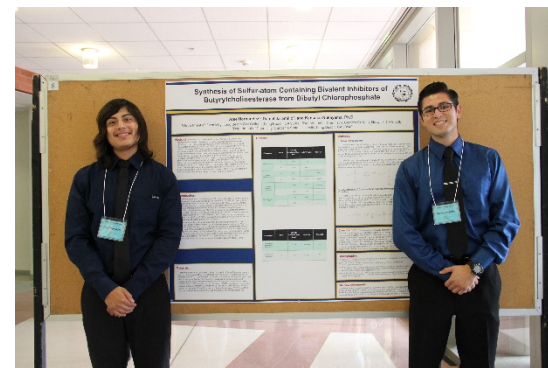
- The 2018 Bridges program is scheduled to run from **Thursday, June 7 – Friday, August 3**
- Week 1: Professional Development and Orientation
- Week 2-8
  - Research hours arranged by your faculty mentor
  - Professional development continued
  - Socials and field trips!

# Applications

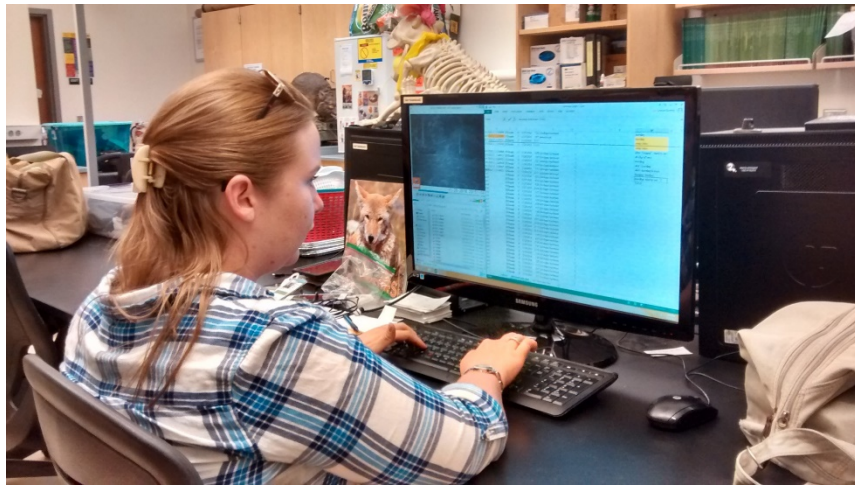
- Are due by **February 27, 2018**...please read the application **carefully!**
- Required: two (2) faculty recommendations and a personal statement.
- Will be considered holistically...everything counts
- Applications will be released later this month

# Basic Requirements

- Be interested in research and learning more about science
- You are a Chemistry, Biochemistry, Biology, or other science major seeking lab experience
- You have (or will have) completed at least **24 semester units** by the start of summer 2018
- You have a minimum of **2.5 GPA** before the program begins
- You are a US Citizen or permanent resident

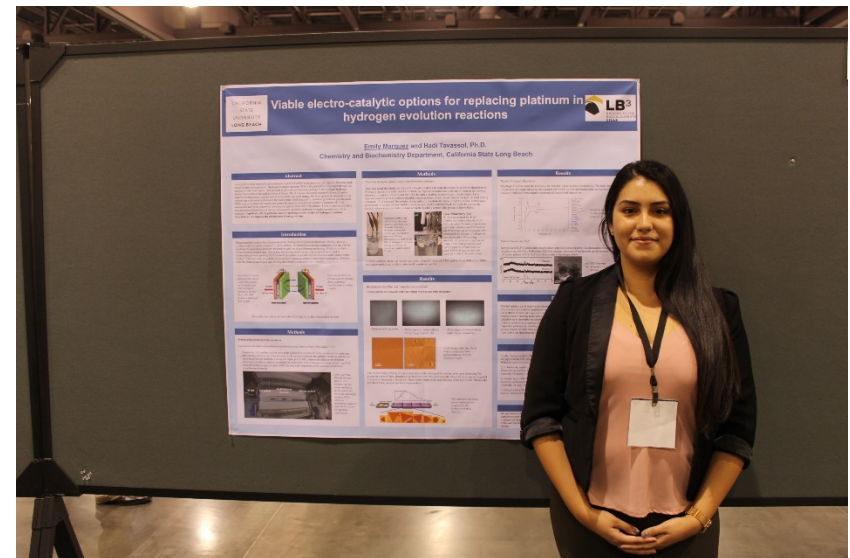


# Summer 2017

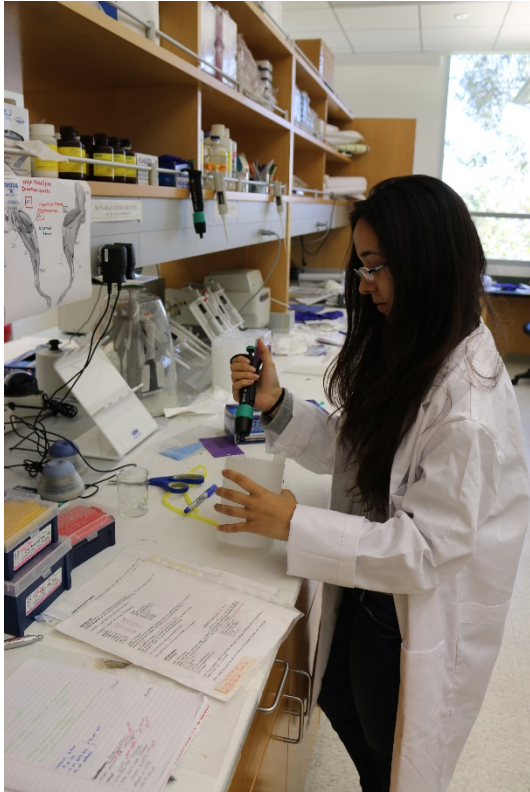


## Coyote Activity and Behavior in Urban Southern California: Avoiding Coyote-Human Conflict

## Viable electro-catalytic options for replacing platinum in hydrogen evolution reactions



# Summer 2017, continued



## Muscle Fiber-Type Characteristics in Mice Bred for High Wheel Running Behavior

## Impacts of Eelgrass (*Zostera marina*) Restoration on Infaunal Invertebrates at Newport Bay, CA



# Additional Information

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<https://web.csulb.edu/colleges/cnsm/sas/bridges/>