



HSI-STEM
SCIENCE • TECHNOLOGY
ENGINEERING • MATH

Summer Bridge to The Beach Application

California State University, Long Beach

6300 State University Drive-Suite 125, Long Beach, CA. 90815

The HSI-STEM Summer Bridge to The Beach is a 9-week undergraduate research program funded by the U.S. Department of Education to provide Latino/a community college transfer students with an understanding and appreciation for research experience and to increase the number of Latinos/as seeking careers in science, technology, engineering, and mathematics (STEM).

Eligibility Criteria:

- First-generation Latino/a or bilingual/bicultural (English/Spanish) transfer student
- Transfer student admitted to CSULB for Fall 2014
- Declared Science, Technology, Engineering, or Math (STEM) major

Benefits:

- Hands-on research with a faculty member from your major
- Build a network and research community with faculty and other students
- Professional development workshops
- Opportunity to travel to a STEM-centered conference
- Up to a \$4,000 stipend

**Acceptance into the program is contingent upon Fall 2014 CSULB admission, qualifications and availability of faculty in your research area.

Program dates: June 9th – August 8th, 2014

Deadline to submit application is Monday, April 14, 2014 by 5pm.

The complete application packet must include:

- HSI-STEM Summer Bridge to The Beach Application Form
- Unofficial transcripts from all universities and community colleges attended
- A Personal Statement (500 words)
 - Describe the top 3 reasons/ motivations for selecting a major in STEM? (i.e. educational experience, family, upbringing, etc.)
 - What are your short and long term career goals?
 - How might the HSI-STEM Summer Bridge Program help you reach your goals?
 - What do you hope to gain from your participation?
- One Recommendation Form and letter of recommendation from a STEM faculty member
(Recommender **MUST DIRECTLY** submit your recommendation form to the Project Coordinator--See information below)

Submit your electronic application to:

Maria Ramirez at maria.ramirez@csulb.edu
Subject: Summer Bridge to The Beach
Application-First Name, Last Name

OR

Deliver your application to:

ATT: MARIA RAMIREZ
CALIFORNIA STATE UNIVERSITY,
LONG BEACH
6300 State University Drive, Suite 125
Long Beach, CA 90815



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Personal Information:

Last Name:		First Name:	
Street Address:			
City:	State:	Zip:	
Date of Birth: ____/____/____			
Cell phone:		Email:	
How did you hear about us? <input type="checkbox"/> Fliers/posters <input type="checkbox"/> Course Instructor <input type="checkbox"/> Bridges Alumni <input type="checkbox"/> Academic Advisor <input type="checkbox"/> Class visit (select all that apply) <input type="checkbox"/> Other (please specify): _____			

Demographic Information:

Age: _____	Sex: <input type="checkbox"/> Male <input type="checkbox"/> Female	Country of Birth: _____
Race/Ethnicity: (please indicate all the categories you identify with below)		
<input type="checkbox"/> Native American	<input type="checkbox"/> Asian	<input type="checkbox"/> Black/African American
<input type="checkbox"/> Middle Eastern	<input type="checkbox"/> Pacific Islander	<input type="checkbox"/> White/Caucasian
		<input type="checkbox"/> Latino/Hispanic
		<input type="checkbox"/> Other:
Are you first generation-educated? <input type="checkbox"/> Yes <input type="checkbox"/> No		Are you bilingual (English/Spanish)? <input type="checkbox"/> Yes <input type="checkbox"/> No

Academic Information:

Current Campus: <input type="checkbox"/> LBCC <input type="checkbox"/> Cerritos <input type="checkbox"/> El Camino <input type="checkbox"/> Cypress <input type="checkbox"/> Other:	GPA:		
Have you been admitted to CSULB for Fall 2014? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Applied, still waiting <input type="checkbox"/> Other (please specify): _____			
Department applied/accepted to: <table border="0"> <tr> <td style="vertical-align: top;"> <u>College of Engineering:</u> <input type="checkbox"/> Chemical Engineering <input type="checkbox"/> Civil Engineering & Construction <input type="checkbox"/> Engineering Management <input type="checkbox"/> Computer Engineering & Computer Science <input type="checkbox"/> Electrical Engineering <input type="checkbox"/> Mechanical & Aerospace Engineering </td> <td style="vertical-align: top;"> <u>College of Natural Sciences & Mathematics:</u> <input type="checkbox"/> Biological Sciences <input type="checkbox"/> Chemistry and Biochemistry <input type="checkbox"/> Geological Sciences <input type="checkbox"/> Mathematics and Statistics <input type="checkbox"/> Physics and Astronomy <input type="checkbox"/> Science Education <input type="checkbox"/> Environmental Science and Policy </td> </tr> </table>		<u>College of Engineering:</u> <input type="checkbox"/> Chemical Engineering <input type="checkbox"/> Civil Engineering & Construction <input type="checkbox"/> Engineering Management <input type="checkbox"/> Computer Engineering & Computer Science <input type="checkbox"/> Electrical Engineering <input type="checkbox"/> Mechanical & Aerospace Engineering	<u>College of Natural Sciences & Mathematics:</u> <input type="checkbox"/> Biological Sciences <input type="checkbox"/> Chemistry and Biochemistry <input type="checkbox"/> Geological Sciences <input type="checkbox"/> Mathematics and Statistics <input type="checkbox"/> Physics and Astronomy <input type="checkbox"/> Science Education <input type="checkbox"/> Environmental Science and Policy
<u>College of Engineering:</u> <input type="checkbox"/> Chemical Engineering <input type="checkbox"/> Civil Engineering & Construction <input type="checkbox"/> Engineering Management <input type="checkbox"/> Computer Engineering & Computer Science <input type="checkbox"/> Electrical Engineering <input type="checkbox"/> Mechanical & Aerospace Engineering	<u>College of Natural Sciences & Mathematics:</u> <input type="checkbox"/> Biological Sciences <input type="checkbox"/> Chemistry and Biochemistry <input type="checkbox"/> Geological Sciences <input type="checkbox"/> Mathematics and Statistics <input type="checkbox"/> Physics and Astronomy <input type="checkbox"/> Science Education <input type="checkbox"/> Environmental Science and Policy		
Declared major:			



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Institutions Attended: (Please list all universities, colleges, and community colleges)

Institution	Degree/Major/Program	GPA

Completed Coursework:

Please include the information requested below for the courses listed for your declared major in the attached document (refer to page 4 and 5).

Course	Grade	Semester Completed (if in progress, write IP)

Preferred Research Experience:

Please indicate which research lab experience you prefer. (Select all that apply)

- Field lab experience involving outdoor data/material collection, as well as working inside the lab running analysis on the data/materials collected
- Lab experience involving primarily computational and/or computer based lab experiments
- Lab experience focusing primarily on carrying out experiments inside a lab
- Engineering/technology lab experience involving research development, design, integration, and/or analysis of new products/methods using engineering principals
- No preference; I am comfortable in any research setting



College of Engineering Major Courses

Aerospace Engineering and Mechanical Engineering

MATH – Calculus I
MATH – Calculus II
PHYS – Mechanics and Heat
PHYS – Electricity and Magnetism
CHEM – General Chemistry

Civil Engineering

MATH – Calculus I
MATH – Calculus II
PHYS – Mechanics and Heat
PHYS – Electricity and Magnetisms
CHEM – General Chemistry
BIOL – General Biology; or MICR – General Microbiology for Health Professionals

Computer Engineering and Electrical Engineering

MATH – Calculus I
MATH – Calculus II
PHYS – Mechanics and Heat
PHYS – Electricity and Magnetisms

Computer Science

MATH – Calculus I
MATH – Calculus II
PHYS – Mechanics and Heat
PHYS – Electricity and Magnetisms
CECS – Introduction to Programming and Problem Solving

Chemical Engineering

MATH – Calculus I
MATH – Calculus II
PHYS – Mechanics and Heat
PHYS – Electricity and Magnetisms
CHEM – General Chemistry

Engineering – Biomedical and Clinical Engineering

MATH – Calculus I
MATH – Calculus II
PHYS – Mechanics and Heat
PHYS – Electricity and Magnetisms
CHEM – General Chemistry

Computer Engineering Technology and Electronics Engineering Technology

MATH – Calculus I
PHYS – General Physics

Construction Engineering Management

MATH – Calculus I
PHYS – General Physics
ACCT – Elementary Financial Accounting

Engineering Systems

MATH – Calculus I
MATH – Calculus II; or PHYS – Mechanics and Heat

Engineering Technology – Technology Education

PHYS – General Physics



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College of Natural Sciences and Mathematics Major Courses

Chemistry B.A., Chemistry B.S., and Biochemistry B.S.

CHEM- General Chemistry
MATH- Calculus I
MATH- Calculus II

Marine Biology and Biology B.S. (Not Bio. Ed.)

CHEM – General Chemistry
MATH – Survey of Calculus I; or MATH –
Calculus I
BIOL – Introduction to Evolution and Diversity
BIOL – Introduction to Cell and Molecular
Biology
BIOL – Introduction to Ecology and Physiology

Biology

CHEM – General Chemistry
MATH – Survey of Calculus I; or MATH –
Calculus I
BIOL – Introduction to Evolution and Diversity
BIOL – Introduction to Cell and Molecular
Biology
BIOL – Introduction to Ecology and Physiology

Microbiology B.S.

CHEM – General Chemistry
MATH – Survey of Calculus I; or MATH –
Calculus I
BIOL – Introduction to Evolution and Diversity
BIOL – Introduction to Cell and Molecular
Biology

Geology

GEOL – General Geology
GEOL – Geology Laboratory
Three of the following four courses:
CHEM – General Chemistry (2 courses - A and B)
MATH – Calculus I
MATH – Calculus II

Earth Sciences B.S.

GEOL – General Geology
GEOL – Geology Laboratory
CHEM – General Chemistry (A only)
MATH – Calculus I
MATH – Calculus II

Mathematics

MATH – Calculus I
MATH – Calculus II

Physics B.A. & B.S.

MATH – Calculus I
MATH – Calculus II*required for B.S.,
recommended for B.A*
PHYS – Mechanics and Heat
PHYS – Electricity and Magnetism



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Letter of Recommendation:

One letter of recommendation is required, using the attached Summer Bridge Recommendation Form. Complete the information below for each of your recommenders.

Name of Recommender:		
Institution:	Department:	
Course Taken with this Instructor:		
Phone:	Email:	Grade Received:

I certify that I have read the information, completed this application form and included all of the materials listed above in my application package.

Signature: _____ Date: _____

Thank you for your interest.

Application deadline is Monday, April 14, 2014 at 5pm.

Submit your application electronically to Maria Ramirez, HSI-STEM Project Coordinator at maria.ramirez@csulb.edu

OR

Deliver your application to:

Att: Maria Ramirez, HSI-STEM Project Coordinator
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Summer Bridge to The Beach 2014 Confidential Recommendation Form

(STUDENT: Please provide your recommender with this form.)

Dear Reference/Recommender,

You have been selected to act as a reference and provide a recommendation to the CSULB HSI-STEM Summer Bridge to The Beach Program. This program aims to provide transfer students with an understanding and appreciation of the research experience to promote their successful transition to a STEM baccalaureate program at CSULB. The HSI-STEM Program staff depends on and appreciates your careful appraisal of the below named student's potential. Your recommendation should include as much information as possible and **remain confidential** from the student.

Submit this form and your recommendation letter electronically to
Maria Ramirez, HSI-STEM Project Coordinator, at maria.ramirez@csulb.edu
by Monday, April 14, 2014 at 5pm.
Please DO NOT return this form to the student.

Student Name:

Please rate the student in the following areas:

Academic performance:

Outstanding Excellent Good Fair Poor No chance to observe

Potential in STEM field:

Outstanding Excellent Good Fair Poor No chance to observe

Likelihood of success in STEM degree:

Outstanding Excellent Good Fair Poor No chance to observe

Attitude & commitment to learning:

Outstanding Excellent Good Fair Poor No chance to observe

Lab skills:

Outstanding Excellent Good Fair Poor No chance to observe

How long have you known the student?

Student's Observed Strengths:

Student's Observed Weaknesses:

Course:

Student Grade:

Recommender Information:

Name:		Department:	
Email:	Phone:	Office:	