

## NHSEMP Summer Bridge Program 2009

**UH Manoa, Oahu (June 28 – August 15, 2009)** – The NHSEMP Summer Bridge Program is a seven-week, paid summer experience for incoming Native Hawaiian, University of Hawaii Manoa freshmen interested in engineering or applied sciences. The Summer Bridge Program addresses specific areas of interest for incoming freshmen: greater preparation for college-level math courses; financial assistance; comfort within a large university system; and a smooth transition from high school to college. Incoming freshmen will have the opportunity to live, study, and work on the UH Manoa campus.

A weekday schedule consists of courses in Math and Hawaiian Studies, research or company internship, and a collaborative study session. NHSEMP covers the expenses of summer on-campus housing, meal plan, and tuition. In addition, students will receive up to a \$1000 stipend, earn 6 credits of University-level coursework, and acquire knowledge and hands-on experience in the engineering/science fields. Students will be prepared for their first year of college at UH Manoa.

**Pasadena, California (June 22 – August 14, 2009)** – Students have the opportunity to intern at the eight-week NASA Jet Propulsion Laboratory (JPL) ALVA program in Pasadena, California. The ALVA Program addresses specific areas of interest for incoming freshmen: high technology research in world-class facilities, greater preparation for college-level math courses, financial assistance, and independent living and life skills. Students will gain knowledge of NASA/JPL technology and prepare for higher education through mentoring, tutoring, and internship participation.

A weekday schedule consists of a six-hour JPL internship, two-hour intensive math preparation course, and a collaborative study session. Students will also participate in field trips and weekend activities. Flight transportation and housing assistance will be provided. Internship participants will earn a stipend upon successful completion of the program. If interested, please mark the appropriate box on the application form.

### **To Apply for the UH Manoa Summer Bridge or the NASA JPL Summer Bridge:**

Please send all of the following materials in one complete packet to the address listed below:

- NHSEMP Summer Bridge Application (3 pages) typed or *legibly* handwritten in black or blue ink. Illegible applications will be rejected. This application must be fully completed, signed, and dated as indicated.
- Official High School Transcripts
- Test Scores: SAT or ACT (PSAT optional).
- Two letters of recommendation from teachers or counselors. Letters of recommendation should address the question: How do you think this student will contribute to *and* gain from this program? Please include any engineering- or science-related activities the student has participated in.
- NHSEMP Essays (2): please see page 3 of application for topics.

### **APPLICATION PACKET MUST BE POSTMARKED BY: THURSDAY APRIL 9, 2009**

*Please send application packet to:*  
NHSEMP SUMMER BRIDGE PROGRAM  
Attn: Kelli Ching  
University of Hawaii, College of Engineering  
2540 Dole Street, Holmes Hall 250  
Honolulu, HI 96822

**NHSEMP Summer Bridge 2009 Application**

**Applicant Information**

NAME: \_\_\_\_\_ Email Address: \_\_\_\_\_  
(Last, First, Middle Initial) (the email address you check)

I am interested in the following program (please check one or both):

- UH Manoa Summer Bridge (located at the University of Hawaii at Manoa campus in Oahu, Hawaii)
- NASA JPL Summer Bridge (located at the California Institute of Technology campus in Pasadena, California)

In Fall 2009, I plan to attend (please check one):

- The University of Hawaii at Manoa
- Another college/university \_\_\_\_\_
- Undecided

Mailing Address: \_\_\_\_\_  
(Street, Apt. #, City, State, Zip Code)

Permanent Address: \_\_\_\_\_  
(if different from above) (Street, Apt. #, City, State, Zip Code)

Home Phone Number: \_\_\_\_\_ Cell Phone Number: \_\_\_\_\_

Gender: Male Female Date of Birth: \_\_\_\_\_ Age: \_\_\_\_\_  
(please circle)

Ethnicity – optional (please check all that apply and specify as needed):

- |  |   |
|--|---|
| <input type="checkbox"/> Chinese             | <input type="checkbox"/> Chamorro                       |
| <input type="checkbox"/> Filipino            | <input type="checkbox"/> Hawaiian / Part-Hawaiian       |
| <input type="checkbox"/> Japanese            | <input type="checkbox"/> Samoan                         |
| <input type="checkbox"/> Korean              | <input type="checkbox"/> Other Pacific Islander (_____) |
| <input type="checkbox"/> Other Asian (_____) |   |
| <input type="checkbox"/> Alaskan Native      | <input type="checkbox"/> African American               |
| <input type="checkbox"/> Native American     | <input type="checkbox"/> Caucasian                      |
|  | <input type="checkbox"/> Hispanic                       |
|  | <input type="checkbox"/> Other (_____)                  |

**Parent/Guardian Information**

Name: \_\_\_\_\_ Relationship to Applicant: \_\_\_\_\_

Mailing Address: \_\_\_\_\_  
(Street, Apt. #, City, State, Zip Code)

Permanent Address: \_\_\_\_\_  
(if different from above) (Street, Apt. #, City, State, Zip Code)

Home Phone: \_\_\_\_\_ Other Phone: \_\_\_\_\_ Email: \_\_\_\_\_

**Emergency Contact Information**

Name: \_\_\_\_\_ Relationship to Applicant: \_\_\_\_\_

Address: \_\_\_\_\_  
(Street, Apt. #, City, State, Zip Code)

Home Phone Number: \_\_\_\_\_ Cell Phone Number: \_\_\_\_\_

**Educational Background**

High School: \_\_\_\_\_ Graduation Date: \_\_\_\_\_ Cumulative GPA: \_\_\_\_\_

Highest Level of Math Completed or will Complete by Graduation: \_\_\_\_\_

I have taken:  Trigonometry  Pre-Calculus  Calculus AB  Calculus BC

Highest Level of Science Completed or will Complete by Graduation: \_\_\_\_\_

I have taken:  Chemistry  Physics

**Areas of Interest**

Intended Major: \_\_\_\_\_

Areas of Interest:  Civil & Environmental (CEE)  Electrical (EE)  Mechanical (ME)  
 Science \_\_\_\_\_

LABS: Please indicate top five choices (from 1 to 5; 1 = 1<sup>st</sup> choice). Labs are subject to change.

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|-------------------------------------|--|--|
| _____ Construction                  | _____ Biology/Bioengineering               | _____ Aerospace *                      |
| _____ Environmental                 | _____ Computers *                          | _____ Renewable Energy                 |
| _____ Structures / Building (large) | _____ Electronics                          | _____ Manufacturing / Building (small) |
| _____ Transportation                | _____ Wireless and Advanced Communications | _____ Robotics / Machines              |
| _____ CEE Company Internship        | _____ Nano Technology                      | _____ NASA JPL Internship              |

\* A strong interest in math is recommended.

**Accomplishments**

Please list any extracurricular interests, community service, or activities you participate in:

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Please describe any special skills or accomplishments/awards significant and relevant to this application:

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Please describe your educational, personal, or career goals:

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**Essays**

Each essay must be a minimum of one page, typed (12 pt. font). For the second essay, please choose one of the following questions from the group:

Essay 1:

1. Why is it important for Hawaiians and Pacific Islanders to excel in the fields of Science, Technology, Engineering, and Mathematics? How does this relate to your goals?

and

Essay 2:

1. How would your room, computer, or car describe you?
2. Tell us something that you are very passionate about that a reader might not learn from the rest of your application. It could be a hobby, a sport, reading, playing chess, or anything else you excel at or keeps you up at night.
3. Do you prefer a competitive or cooperative academic atmosphere? Please explain your choice.

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***"I hereby certify that the information provided is true to the best of my knowledge."***

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Signature of Applicant

Date

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Signature of Parent/Guardian

Date