

## 2017 CHORI SUMMER RESEARCH PROGRAM

### ELIZABETH NASH FOUNDATION CYSTIC FIBROSIS SUMMER RESEARCH AWARD

Application deadline: **April 14, 2017 by 4:00 pm PST**  
Award announcement: **April 28, 2017 by email**

#### **Objective**

The objective of the Elizabeth Nash Foundation Cystic Fibrosis Summer Research Award is to provide short-term research training opportunities in the specific area of Cystic Fibrosis at the UCSF Benioff Children's Hospital Oakland and the Children's Hospital Oakland Research Institute. The program is open to high school seniors and undergraduate students. The goal is to identify students who have a strong interest in pursuing research in Cystic Fibrosis. The program provides the students with a research training experience to stimulate interest in biomedical and/or clinical research in a friendly and nurturing environment.

The awardee will be paired with a scientist involved in cystic fibrosis research who will guide them through their research projects. The program is based on a structured curriculum, including participation in weekly seminars and a one-day Research Symposium.

#### **Funding**

The awardee will be provided a one-time stipend of \$3,500 for the 9-week period. Out of state students may be eligible for a travel/housing stipend of \$500.

#### **Duration**

June 12, 2017 to August 11, 2017

#### **To qualify:**

- The candidate should have a strong interest and commitment to research in cystic fibrosis with a good academic standing
- The applicant should be a High School senior going into College/University or an Undergraduate student
- Students from families or with friends affected by cystic fibrosis are encouraged to apply. Students must be citizens or non-citizen nationals of the United States, or must have been lawfully admitted for permanent residency (i.e., in possession of the Alien Registration Receipt Card I-551 or I-151) at the time of appointment. Individuals on temporary or student visas are not eligible.

#### **Selection of Candidates**

A selection committee will meet and review all applications. Criteria for selection of the candidate will include commitment to research in cystic fibrosis, potential, enthusiasm, career goals and ability (based on the written essay and demonstrated by courses taken, grades, and letters of recommendation). The selected student will be notified via e-mail.

## **How to Apply:**

Students should submit the following:

1. Completed application form
2. A list of classes/undergraduate courses taken and grades received
3. A brief (one page maximum) essay describing why the candidate would like to carry out cystic fibrosis research.
4. Two letters of recommendation from individuals familiar with your interests, abilities, and/or career goals. Students are encouraged to check to make sure these letters are delivered prior to the application deadline (letters should be sent electronically by the letter writer to [summerstudentprogram@chori.org](mailto:summerstudentprogram@chori.org) or should be included with the application in a sealed envelope).
5. A resume

The application must be received (at the address below) by 4:00 PM PST on **Friday, April 14, 2017**. The application can be sent per email to [summerstudentprogram@chori.org](mailto:summerstudentprogram@chori.org), mailed **or** hand delivered to our front security desk.

ATTN: CHORI SUMMER RESEARCH PROGRAM  
ELIZABETH NASH FOUNDATION CYSTIC FIBROSIS SUMMER RESEARCH AWARD  
Children's Hospital Oakland Research Institute  
5700 Martin Luther King, Jr. Way  
Oakland, CA 94609

Children's Hospital & Research Institute Oakland

**2017 CHORI SUMMER RESEARCH PROGRAM**  
ELIZABETH NASH FOUNDATION CYSTIC FIBROSIS SUMMER  
RESEARCH AWARD

**Application For Summer 2017**

1. Name: \_\_\_\_\_ 2. Social Security #: \_\_\_\_\_

3. E-Mail Address: \_\_\_\_\_

4. University or College you are currently attending or will be attending: \_\_\_\_\_

5. Place of Residence: \_\_\_\_\_ Telephone Number: \_\_\_\_\_

6. Permanent Address: \_\_\_\_\_ Telephone Number: \_\_\_\_\_

7. Undergraduate Status as of January 2017: (Check One)

Graduating High school Senior  Freshman,  Sophomore,  Junior,  Senior  Non-Graduating Senior  
(Graduating Seniors Excluded) Note: Preference Will Be Given To Sophomores, Juniors And Non-Graduating Seniors

8. Grade Point Average (Attach A Copy Of Transcript): \_\_\_\_\_

9. Declared or Intended Major: \_\_\_\_\_

**10. Citizenship Requirements:** Students must be citizens or non-citizen nationals of the United States, or must have been lawfully admitted for permanent residency (i.e., in possession of the Alien Registration Receipt Card I-551 or I-151) at the time of appointment. Individuals on temporary or student visas are not eligible.

**11. Letters of Recommendation**

Include two letters of recommendation in a sealed envelope.

On a separate sheet of paper, please write a brief essay describing why you want to participate in this program, including any personal reasons for carrying out cystic fibrosis research. Describe how it relates to your overall interests and goals. Please limit your essay to one page.

This is to certify that I have read the curriculum on pages 3 & 4 and I agree to a full-time commitment during the dates of June 12 – August 11, 2017, if I am selected to participate in this program.

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Parental Signature (if applicant is a minor – under 18):

\_\_\_\_\_ Date: \_\_\_\_\_

## **2017 CHORI SUMMER RESEARCH PROGRAM CURRICULUM**

### **Orientation, June 12, 2017**

There will be an all-day orientation for summer interns on Monday, June 12, 2017 from 10:00 am until 4:00 pm. Continental Breakfast will be served at 9:30 a.m. Lunch will be served.

Agenda to include:

- Introduction and overview by Director and Co-Directors
- Keynote lecture
- Explanation of curriculum
- CHORI tour and badges

### **Safety Training, June 14, 2017**

The mandatory Safety Training with CHORI Safety Officer, Miriam Fang will be held on Wednesday, June 14th from 9:30 am – 12:30 pm. The student will be required to complete this training BEFORE beginning their project.

### **Research Project: June 12, 2017 to August 11, 2017**

The student will conduct research with assigned mentor. The details of project and research plan are left entirely to the individual mentor and each summer intern will follow the procedures, and schedule, laid out by their respective labs.

### **Submit Written Research Plan: June 28, 2017**

Students must submit to the Program Coordinator a written Research Plan outlining their project. The Research Plan should be 3 pages long and include:

- (a) Statement of hypothesis
- (b) Specific aims
- (c) Background
- (d) Methods
- (e) Anticipated outcome of project

Students will work closely with their mentor in the preparation of these reports, and mentors should review and approve the reports before submission. Figures, flow charts and schematics may be used to illustrate the research plan. The written report will be sent to: [summerstudentprogram@chori.org](mailto:summerstudentprogram@chori.org), and must include student's name, mentor's name and the title of the project.

### **Weekly Lectures: Current Topics in Health and Disease**

Students are required to attend weekly lectures delivered by CHORI and CHRCO faculty members. The lectures will cover various scientific topics, including women's and minority's issues, career decisions, teen health issues and Responsible Conduct of Research.

### **Student Photo Day: June 15, 2017**

All students must be present.

### **2017 CHORI Summer Student Symposium, August 11, 2017**

A one-day symposium will be held on Friday, August 11, 2017 where all students are **required** to participate. The students will submit an abstract concisely summarizing their work, which will be considered for an oral or a poster session for the Symposium. Abstracts are due on July 19, 2017 by 4:00 pm. A committee comprised of the Director, Co-Directors and other leading members of the CHORI scientific community will review the abstracts for the Symposium. Students will work closely with their mentors in the preparation of abstracts and presentations. Family members, teachers, lab members and friends are welcome to attend.

The Symposium will be comprised of oral presentations (10 minutes each, with 5 minute discussion), and a poster session during which the presenters will be on-hand to explain their research project. A catered breakfast and lunch will be provided for all attendees on the Symposium day.

A certificate of participation in the CHORI Summer Student Research Program will be awarded to those who successfully complete the program.

**Summary of important dates:**

June 12, 2017	Orientation: 9:00 A.M. – 4:00 P.M.
June 14, 2017	Safety Training: 9:30 A.M. – 12:30 P.M.
June 15, 2017	Student Photo Day: All Students must be present
June 20, 2017	Safety Training- MAKEUP: 2:00 P.M. – 5:30 P.M.
June 28, 2017	Written Research Plan due by 4:00 PM
July 6, 2017	Personal Statement for Program Guide due by 4:00 P.M.
July 19, 2017	Abstract due by 4:00 P.M.
August 11, 2017	Summer Student Research Symposium

**Please e-mail any additional questions and concerns to: [summerstudentprogram@chori.org](mailto:summerstudentprogram@chori.org)**