

## 2018 CHORI SUMMER RESEARCH PROGRAM

### ELIZABETH NASH FOUNDATION CYSTIC FIBROSIS SUMMER RESEARCH AWARD

Application deadline: **April 16, 2018 by 4:00 pm PST**  
Award announcement: **April 27, 2018 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 \$750.

#### **Duration**

June 11, 2018 to August 10, 2018

#### **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 (unofficial transcript)
3. A brief (500 words maximum) essay describing why the candidate would like to carry out a cystic fibrosis research project.
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 (1-2 pages)

The application must be received (at the address below) by 4:00 PM PST on **Monday, April 16, 2018.**

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

# 2018 CHORI SUMMER RESEARCH PROGRAM

## ELIZABETH NASH FOUNDATION CYSTIC FIBROSIS SUMMER RESEARCH AWARD

### APPLICATION FOR SUMMER 2018

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 11 – August 10, 2018, if I am selected to participate in this program.

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

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

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

# 2018 CHORI SUMMER RESEARCH PROGRAM CURRICULUM

## **Administrative Orientation, June 11, 2017**

There will be an administrative orientation for summer interns on Monday, June 11, 2018 from 9:30 am until 11:00 am.

## **Safety Training, June 11, 2017**

For all students who will be working with mentors in a basic science laboratory, a mandatory Safety Training with CHORI Safety Officer, Miriam Fang.

Students are required to complete this training BEFORE beginning their projects.

## **Program Orientation, June 18, 2018**

There will be an all-day program orientation for summer interns on Monday, June 18, 2018 (required for all students).

Agenda to include:

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

## **Research Project: June 11, 2018 to August 10, 2018**

The student will conduct research with the 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 27, 2018 (due by 4:00 PM)**

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.

## **Submit Research Abstract: July 18, 2018 (due by 4:00 P.M)**

Students will work closely with their mentors in the preparation of abstracts concisely summarizing their work. A committee comprised of the Director, Co-Directors and other leading members of the CHORI scientific community will review the abstracts for the Symposium. Abstracts will be considered for either presentation in an oral format or as a poster.

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

Students are required to attend weekly lectures every Thursday afternoon during the program delivered by CHORI, BCHO, UCB and UCSF faculty members. The lectures will cover various scientific topics, as well as discussions regarding women's and minority's issues, career planning, how to read and review literature, scientific ethics and Responsible Conduct of Research.

## **Student Photo Day: June 28, 2018**

All students must be present.

**2018 CHORI Summer Student Symposium: August 10, 2018**

A one-day symposium will be held on Friday, August 10, 2018 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. 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 11, 2018	Administrative Orientation: 9:30 A.M. – 11:00 A.M.
June 11, 2018	Safety Training: (mandatory)
June 13, 2018	Mentor-meet and greet: 12:00 P.M. - 1:00 P.M
June 18, 2018	Program Orientation: 9:00 A.M. – 5:00 P.M. (required for all students)
June 19, 2018	Safety Training- MAKEUP
June 27, 2018	Written Research Plan due by 4:00 P.M.
June 28, 2018	Student Photo Day: All Students must be present
July 5, 2018	Personal Statement for Program Guide due by 3:00 P.M.
July 18, 2018	Research Abstract due by 4:00 P.M.
August 10, 2018	Summer Student Research Symposium: All Day (required for all students)

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