

2010 CHORI SUMMER RESEARCH PROGRAM

ELIZABETH NASH FOUNDATION CYSTIC FIBROSIS SUMMER RESEARCH AWARD

Application deadline: **March 1, 2010 by 5:00 pm PST**
Award announcement: March 31, 2010

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 Children's Hospital & Research Center Oakland. 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 \$2,500 for the 9-week period. Out of state students may be eligible for a travel/housing stipend.

Duration

June 10, 2010 to August 13, 2010

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 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 (letter should be included with application in a sealed envelope).
5. A resume

The application must be received (at the address below) by 5:00 PM PST on March 1, 2010
The applications can be mailed **or** hand delivered to our front security desk.

ATTN: 2010 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

2010 CHORI SUMMER RESEARCH PROGRAM
ELIZABETH NASH FOUNDATION CYSTIC FIBROSIS SUMMER
RESEARCH AWARD

Application For Summer 2010

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 2010: (Circle One)
Freshman, Sophomore, Junior, 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 14, 2010, if I am selected to participate in this program.

Signature: _____ Date: _____

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

_____ Date: _____

2010 CHORI SUMMER RESEARCH PROGRAM CURRICULUM

Orientation, June 10, 2010

There will be an all-day orientation for summer interns on Thursday, June 10, 2010, from 10:00 am until 4:00 pm. 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 11, 2010

The mandatory Safety Training with CHORI Safety Officer, Miriam Fang will be held on Friday, June 11 from 9:30 am – 12:00 pm. The student will be required to complete this training BEFORE beginning their project.

Research Project: June 14, 2010 to August 13, 2010

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: July 2, 2010

Students must submit to the Scholars Program Coordinator a written Research Plan outlining their project. The Research Plan should be 3-4 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, and must include student's name, mentor's name and the title of the project.

Presentations at weekly meetings

Meetings will be held every week, at which students are required to present their research plan in an informal setting to the Program Director, Co-Directors and peers. This is designed to aid them in discussing their projects with their peer group, and to help them to obtain an overall perspective of their progress. Each presentation should last approximately 10 minutes.

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.

2010 CHORI Summer Student Symposium, August 13, 2010

A one-day symposium will be held on August 13, 2010 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 30, 2010 by 5:00 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. Details of the Symposium and the scientific sessions will be available by August 2, 2010.

The Symposium will comprise of about 12 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. An abstract book, which will include the Symposium program, personal statements, and the research project abstracts, will be presented to each student. 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 10, 2010	Orientation: 10:00 A.M. – 4:00 P.M.
June 11, 2010	Safety Training: 9:30 A.M. – 12:00 P.M.
July 2, 2010	Written Research Plan due
July 12, 2010	Personal Statement for Program Guide due by 5:00 P.M.
July 30, 2010	Abstract for Program Guide due by 5:00 P.M.
August 13, 2010	Summer Student Research Symposium

Please e-mail any additional questions and concerns to: summerstudentprogram@chori.org