



## Scientific Enrichment Program for Students Student Research Program

### The Purpose

The Student Research Program is part of the Scientific Enrichment Program for Students administered by the Neurology Research Laboratory of Barrow Neurological Institute of St. Joseph’s Hospital and Medical Center. Its purpose is to provide an academic environment for “hands on” fundamental biomedical research for high school and college students. The objectives of this program are to: 1) enhance knowledge of basic biological principles and the mechanisms that contribute to the cause and treatment of disease; 2) teach students to evaluate scientific literature and to develop communication skills; 3) teach students to use advanced scientific techniques and to address scientific questions; and 4) provide the environment to develop scientific projects that are presented at local and national scientific competitions and/or in scientific literature.

### The High School Student Research Volunteer Program

The High School Student Research Volunteer Program is an on-going program that allows highly motivated high school students to participate in scientific research. In the Fall of each academic year, a letter is sent to the Chairperson of the Science Department and/or the Principal of each area high school requesting that two students be nominated from their school. We rely on these teachers to select a maximum of two students from their school who they feel are highly motivated and would benefit from this laboratory experience. All applications must come through the student’s school (individual applications are not accepted). Students must have completed their Freshman year in High School, and are expected to work a minimum of two to three hours per day at least two weekdays per week during the school year. They must maintain their grades at school while participating in the program. Summer participation varies and is arranged between the student and his/her mentor. For example, students in Neurology Research are expected to work at least four full days per week and to participate in the student research seminar. High School students are placed in a number of laboratories at Barrow Neurological Institute, St. Joseph’s Hospital and Medical Center, and occasionally the Mayo Clinic-Scottsdale and Arizona State University. Applications are reviewed and students are interviewed by mentors from all of these institutions.

The results of this program have been outstanding. Presentations by our students have demonstrated a mastery of advanced scientific principles. Our students have won numerous local and national awards.

### Undergraduate Summer Student Research Program

The Undergraduate Summer Student Research Program consists of full-time summer employment as a research intern under the direction and supervision of a staff research scientist in the Neurology Research Laboratories. Students also present their own research at our Student Research Day. Undergraduate students are paid a stipend for the summer.

Students must have completed their freshman year of college-level education by the time they will begin laboratory work. Course work in Biology, Chemistry, Anatomy/Physiology and Biochemistry is useful. Prior experience in a laboratory is desirable but not required. Returning students are given first consideration for entry into the program. Application for a Student Research Intern position is a letter of intent stating the reason for seeking the position and dates available and a resume detailing any pertinent experience and work history. These should be submitted via email in Word format to [seps@dignityhealth.org](mailto:seps@dignityhealth.org) during January and February. Personal or telephone interviews will be scheduled at the convenience of the individual scientists and students will be notified of their decisions by mid April.

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This program is made possible through donations from Corporate, Foundation and individual donors.  
For additional information or to contribute to the Scientific Enrichment Program  
please call 602-406-4092 or contact us by E-mail [seps@dignityhealth.org](mailto:seps@dignityhealth.org)