

Allie Arguello, SeCURE 2014

### Mission Statement

The Program will provide the opportunity for young people to be instructed in the techniques of biology, while becoming integrated members of a vibrant clinical and scientific community.

### Participants

Students from campuses located all over the nation who have finished at least their sophomore or junior year of college will be accepted to the 10-week paid summer program to work with UAB faculty members on independent research projects. On-campus room and board will be provided to students. Students will receive a stipend of \$2,500 for their participation in the program.

### Requirements

The basic recruitment process will include applications and interviews at the University of California, Merced (UC Merced). Students apply to the Biology department, which includes a transcript of their current grades, personal statement of career goals and interest in the program, as well as an interview with 2 faculty members. We require GPA > 3.0 at the time of acceptance and an understanding of the commitment to research.

For more information on how to apply, go to:  
<http://applyuroc.ucmerced.edu>



### Birmingham, AL

The City of Birmingham is the largest city in the state with a population currently estimated at 242,820, and a metro population of 1,079,089.

Nestled at the foothills of the Appalachian Mountains at the cross-section of two major railroads, the city was once the primary industrial center of the southern United States. Today, Birmingham has transformed itself into a medical research, banking and service-based economy, making it one of the nation's most livable cities with a vibrant downtown, a burgeoning loft community, a world-class culinary scene and more green space per capita than any other city in the nation!

Birmingham also boasts 99 historic neighborhoods and is often referred to as the cradle of the American Civil Rights Movement.

For more information visit:  
<http://www.10best.com/destinations/alabama/birmingham/>  
<http://www.birminghamal.gov>

## Summer Cardio-Renal Undergraduate Research Experience

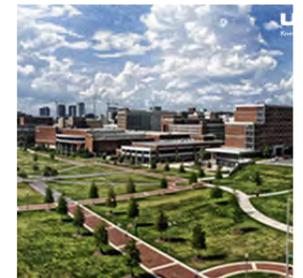
# SeCURE



Gain valuable experience in basic and clinical scientific research

SeCURE is a 10-week, paid summer program that offers exciting hands-on research experience to for students with a desire to pursue careers in the biomedical sciences. The program is particularly targeted to students having no local campus access to biomedical research laboratories.

Students will have the opportunity to work with prestigious faculty members and scientists at University of Alabama at Birmingham.



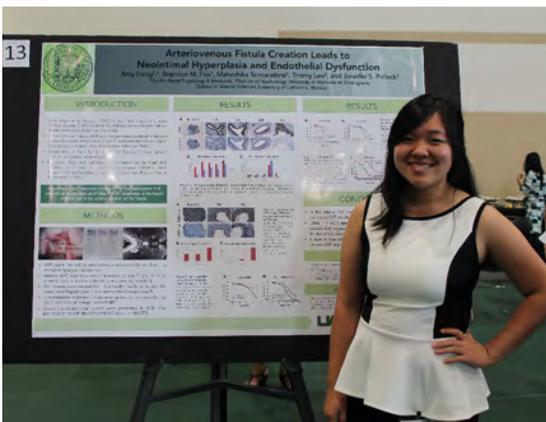
# What to expect from SeCURE



SeCURE Research Symposium 2014



Students working as a team, 2014



Amy Hang presenting her research, 2014

## The Curriculum

Each student will work on independent research projects under the supervision of the senior scientist or a senior member of that research group. A policy statement of the expectations will be provided to both mentors and students prior to the beginning of the rotation. At the completion of the 10-week program, students will complete an evaluation of the Program and their individual research experiences as well as participate in a symposium on their research project. The SeCURE students will participate in a unique journal club series designed to give insight into both the basic science and the clinical science aspects of common diseases.

## Basic and Clinical Research

The career possibilities in both basic and clinical science will be further explored by students being given the option to shadow a clinician for a day, to give them a realistic concept of careers at an academic medical center.

## Types of Research

The focus of most research projects will be on understanding the physiology as well as pathophysiology of the renal and cardiovascular systems.

Students will be involved in research projects ranging from studying the role of endothelin-1

and nitric oxide synthase in renal physiology to investigating how childhood adversity promotes vascular and renal damage.

## Experience UAB and Birmingham, AL

UAB is centrally located in the city of Birmingham, thus offering students the ample opportunity to explore the Birmingham area during social outings. Birmingham has many dining options and great artists and local businesses.

## What former students of SeCURE have to say

"[SeCURE] opened doors for me - fellowship opportunities, travel opportunities to conferences, and graduate school and/or medical school." -**Amy Hang, UC Merced, 2014**

"I learned so much about methods and procedures in conducting research and had a great experience presenting my work.

-**Allie Arguello, University of Evansville, 2014**

"While in Birmingham we went to the children's museum, the civil rights museum, watched a baseball game, and ate at a lot of restaurants. We had a rich experience in and outside of the lab."

-**Jourdan Mason, UC Merced, 2014**

"I actually felt like I played a part in shaping the outcome of my project and was included in all of their activities, including attending seminars, lab meetings, and journal clubs."

-**Yasminye Pettway, Duke University, 2014**