

# Be a Research Host

## RESEARCH HOST EXPECTATIONS

Greenhills Advanced Research program relies on research hosts who are eager to share their lab with enthusiastic, capable young scientists and reach out to the local K-12 scientific community. Research hosts' main role is to welcome and engage our students in their lab throughout the summer. During the school year, research hosts are asked to do a final edit of the students' papers and are also invited to attend our Advanced Research Night in early December to listen to our students present their work. Greenhills students are not permitted to be financially compensated for their summer work.

## HOW TO BECOME A HOST

If you or a colleague would be interested in hosting a Greenhills student in the summer of 2020, please contact:

**Julie Smith**

Advanced Research Coordinator

734-769-4010

[jsmith@greenhillsschool.org](mailto:jsmith@greenhillsschool.org)



## IMPORTANT DATES

### November, 2019

Applications sent to current juniors

### December 11, 2019 at 7:00pm

Advanced Research Night at Greenhills

### January – February 2020

Student-Researcher matches confirmed for summer 2020

### February – May 2020

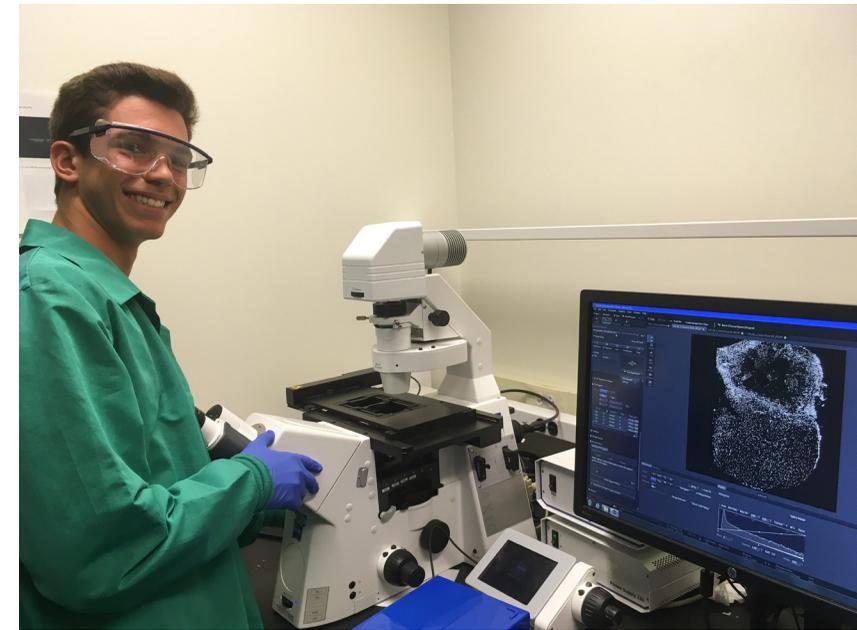
Student preparation for research placements

### Late June – August 2020

Students complete research in labs

### September – December 2020

Students complete Advanced Research Course



## RECENT HOST INSTITUTIONS



Learning by doing.  
**ADVANCED  
RESEARCH  
PROGRAM**

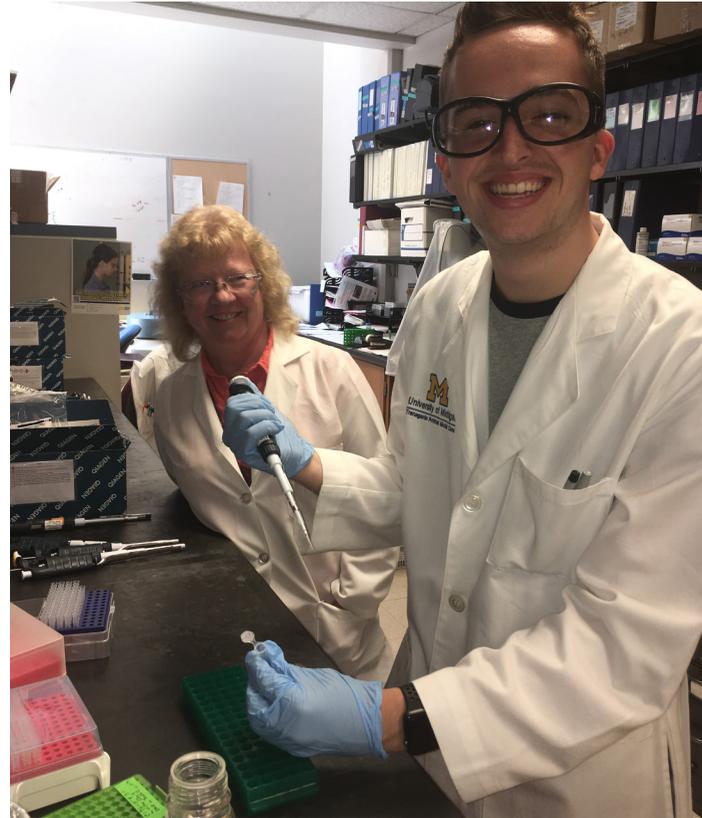


# About Greenhills Advanced Research

Science is ever expanding; each day, new ideas and data accumulate. The goal at the heart of the Greenhills Science Department is that our students attain a working understanding of the unifying concepts and scientific practices by which scientists learn and discover.

The Greenhills Advanced Research Program enables our best and brightest students to prepare for college level work in a 'real life' research setting. Our students gain experience and carry out research in working scientific laboratories during the summer after their junior year of high school and complete the Advanced Research course during their senior year.

Students' experiences enable them to discover what 'real life' research is all about—the joys, the pitfalls, the frustrations and elations involved in discovery at the collegiate level. Students gain experience in using cutting edge technology and enter their collegiate careers with a contextual grasp of the fundamental principles of science and research that sets them apart from their peers in college.



## SUMMER INTERNSHIP

During the summer between junior and senior year, students spend approximately eight weeks working in a local lab. After a brief orientation to particular skills and practices, students undertake their own research project through which they will ideally work towards answering a current question in their chosen field. While the nature of research means that they may not always get the answer they were hoping for (or any answer at all), students are expected to work towards a specific project that they will be able to write up during the school year in a professional research paper. Students are expected to take part in all aspects of lab life, including lab meetings and journal clubs as they might occur.



## ADVANCED RESEARCH COURSE

During the students' senior year, they complete our Advanced Research class. In this class, students communicate their research findings through writing a research paper (Abstract, Introduction, Methods, Results, Discussion & Bibliography), producing a research poster, and learning to give short and longer talks about their research to a variety of audiences. In addition, students learn about research methodology and analysis, ethical issues in research, and continue to learn about and share current findings in their research field.

## MATCHING STUDENTS

Current students apply for the Advanced Research Program in early December of their junior year. Students' application packages include a resume, transcript, teacher recommendation and a ranking of fields of interest (biology, chemistry, engineering, field work, medicine, etc.). Greenhills Advanced Research faculty then work with the students to identify possible placements in order to find the best 'fit' for both students and research hosts alike.

