

Paid Scientific Internship for High School Juniors

The **Baliga Lab** at the Institute for Systems Biology (ISB) will be hiring two to ten high school students to work **full time** for approximately **8 weeks tentatively beginning June 27, 2015**. Students will gain useful experience in microbiology techniques, systems biology, web page development, curriculum design, and in many areas of science and the professional world. The pay rate is \$12.00/hour.

Interested students should go to the “Internships” section on the ISB careers page between January and March 2016 (www.systemsbiology.org/careers). Follow the appropriate links to learn more about the high school internship and the application process.

Only students who will **be entering their senior year of high school in the fall** of 2015 should apply. **No experience is necessary and only complete applications will be considered – please read all application instructions carefully.** The deadline for application is at midnight, **March 29, 2016**. Direct any questions to Claudia Ludwig at 206-732-1453 or claudia.ludwig@systemsbiology.org.

Possible topics for this summer’s research:

- Designing and researching with sustainable systems, such as aquaponics.
- How the changing carbon cycle has impacted ocean systems (ocean acidification)
- Researching with model organisms, including archaea, algae, diatoms, anaerobes, bacteria, and/or yeast
- Using model organisms to understand evolution and adaptation
- How the environment leads to adaptation and/or changes in gene expression
- How we use mathematical models to understand cancer, ecological systems, food security and sustainability
- How systems level studies help us understand our environment and our health
- How systems level studies help us make oil for energy production
- Interdependence studies between marine and fresh water organisms
- The building and testing of scientific technology and instruments
- How today’s research can be used and understood in high school classrooms
- What career opportunities are available in today’s market?

Feel free to view the web pages previous interns have created -

<http://see.systemsbiology.net/student-intern-sites/>

Learn more about ISB and our program -

<https://see.systemsbiology.net/high-school-intern-program/>

Here’s what Jessica from Garfield HS said about her internship at ISB:

“I learned how to work collaboratively in a lab setting. It was also great to get a feeling for what it is like to be a research scientist. I realized that I can come into something being completely ignorant and gain an understanding of what is happening by asking questions and doing research. This was a really great thing to realize because it made the knowledge of people in the lab seem a lot more accessible to me and a more realistic goal. It taught me that I can, although it will take a while, become as knowledgeable about science as the researchers in the lab.”