



# CODING FOR CANCER



## Do you wonder how cancer researchers use computational tools in their search to prevent cancer and find cures?

Computational skills are increasingly important in nearly all fields of biomedical research at the Hutch and beyond. **Coding for Cancer** connects students with computational biologists, teaches hands-on skills, and how coding and computational tools are used in cancer research. No prior coding experience is necessary. Selected participants will receive a stipend. **Join us!**

### Applicants should:

- Be entering 11th or 12th grade in the fall 2022.
- Preferably live in Washington state.
- Apply even if they have no coding experience.
- Be available for all of the program dates.

This course will teach the R programming language and environment. The program will accommodate a range of prior knowledge, including those with no coding experience. We will work with students who do not have access to technology to gain necessary equipment and internet access for the duration of the program. Students will receive a \$1000 stipend upon completion of the program.

The program is specifically designed for students from backgrounds systemically excluded from careers in biomedical science as defined by the National Institutes of Health.

### Details:

**WHEN:** Monday - Friday, August 1st - 26th from 10:00 am - 12:30 pm PT. The first half of the program will have small-group and individual activities to learn the coding language and some cancer biology. The second half of the program will be focused on each students' research project.

**WHERE:** 100% virtual, but participating students will be invited to campus once it's safe.

**WHY:** You'll have fun, learn a coding language, do hands-on activities, and meet great people!

**HOW:** The application must be submitted by 11:59pm PT on April 7th, 2022.

*Go to [bit.ly/CodingForCancer2022](https://bit.ly/CodingForCancer2022) or QR code below*



**Maggie Russell** LEAD INSTRUCTOR  
PhD student at the University of Washington studying immune receptor diversity using statistical inference on large datasets.



**Sam Hart** LEAD INSTRUCTOR  
PhD student at the University of Washington studying computational techniques to investigate the evolutionary origins of a contagious cancer in clams

The program is a collaboration among science education staff and scientists who are active computational biology researchers. Questions? Email [codingforcancer@fredhutch.org](mailto:codingforcancer@fredhutch.org)

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