



Janelia-LCPS Summer Internship Program

About Janelia

Howard Hughes Medical Institute (HHMI) is a science philanthropy whose mission is to advance biomedical research and science education for the benefit of humanity. We empower exceptional scientists and student to pursue fundamental questions about living systems. Opened in 2006, HHMI's Janelia Research Campus is a pioneering research center in Ashburn, VA, where scientists pursue biology's most challenging problems in a uniquely innovative and collaborative atmosphere. Janelia researchers are dedicated to understanding the function of neural circuits and developing synergistic imaging technology.

Program Information

The Janelia-LCPS Summer Internship Program will offer high school students attending Loudoun County Public Schools the opportunity to spend 8 weeks at Howard Hughes Medical Institute's Janelia Research Campus, performing research using state-of-the-art technology and methods to answer questions in biology and computational science under the guidance of group leaders, scientists and engineers. Selected students will have the opportunity to attend seminars by Janelia researchers, as well as to participate in journal clubs and other events.

In 2018 the program will run from June 18th to August 10th. Please note that this is a full-time paid internship to which you will be dedicating 40 hours per week, and therefore it is expected that you will not undertake other organized activities that conflict with the program and will plan vacations around the internship dates. Students selected will be responsible for their own housing, food, and travel to and from Janelia.

Eligibility

We accept applications for students attending an LCPS high school who are in good academic standing and will be 16 years old by June 13, 2018.

We are looking for students with strong biology and computational background who have demonstrated a high level of academic standard and have experience in scientific research. Projects are expected to cover a wide variety of topics including machine learning algorithms, data annotation, reconstruction of neural networks, animal behavior and optogenetics.

Application Materials

For full consideration, applications must be received before 5 pm on January 31, 2018. The application materials (Resume, statement of purpose, and description of activities) must be emailed as a single, combined PDF document to science@lcps.org. The file must be named with the student's last name and LCPS student number, e.g. Smith12345. Include "Janelia-LCPS Summer Internship Program" in the subject line of the email.

- An up-to-date resume. The resume must include the LCPS student ID number.
- A 250-300 word statement of purpose. The statement of purpose should briefly describe your reasons for applying to the program.
- In 500 words or less, please describe any activities in or beyond the classroom that show potential for leadership in science and mathematics, for example:
 - Participation in mathematics, science, and engineering competitions.

Questions about this program must be addressed to science@lcps.org. Do not contact Janelia Research Campus.

- Completion of scientific or engineering projects.
 - Experience coding in Python, MATLAB, C, C++, or other languages.
 - Completion of university-level coursework.
 - Experience conducting original scientific research.
- One letter of recommendation from a math or science teacher. Only one letter of recommendation will be accepted. The letter should be from a teacher who has taught you in an academic class in high-school and who can talk about how you interact with your peers and classmates, how well prepare you are for your classes, the level of engagement in the classroom as well as your dedication to school activities. *The letter of recommendation must be submitted directly by the teacher to science@lcps.org with the subject line "Letter of Recommendation for Applicant Last Name, Applicant First Name", and must include the student's LCPS student number.*
 - You will not need to submit a transcript with the application materials, but please be aware that your transcript will be accessed and reviewed by LCPS staff as part of the selection process.
 - No additional materials will be accepted or considered.

Evaluation and Selection Process

Top candidates will be contacted by email to schedule an interview by **February 28, 2018**. Once interviews have been completed, all applicants will be notified of the outcome of their application by **March 30, 2018**.

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