Questions? Contact us at HPC_Internships@lps.umd.edu

Only US citizens are eligible to participate in this internship. A faculty recommendation letter is a required part of the application, as well as a college transcript (unofficial version acceptable).

The internship will run from June 6 to August 5, 2022.

Participants will receive a $500/week stipend in addition to expenses (travel, lodging, meals).

Designed for current juniors in math, computer science, and computer engineering (those graduating in Spring 2023).

Others are welcome to apply – but only US citizens are eligible for the internship.

Visit (link) to learn what type of educational background provides good preparation for this internship.

Application form.

Important dates and deadlines
There will be an online information session to learn about the internship on October 28, 2021. Send us an email at HPC_Internships@lps.umd.edu to get an invite to this session.

Applications are due January 31, 2022.

Selection of participants will be made by February 28, 2022.

Formal acceptance of the internship offer must be made by March 31, 2022 to reserve a slot in the program.

An on-line orientation session for participating summer interns will be held on April 28, 2022.
Eligibility
The program is targeted to students who will be completing their junior year (Spring 2023 graduates) in math, computer science or computer engineering, but all majors are eligible. We consider talent, experience, and potential. You must be a US citizen to participate.

Minimum requirements
Interns must meet the following minimum requirements. If you are unsure whether you meet them, please ask us! We don’t want miss someone because they meet requirements in a way we did not anticipate. Send an email to HPC_Internships@lps.umd.edu if you want clarifications or have questions.

1. Basic understanding of how an operating system works, and some experience using Linux.
2. Command line skills. You should have basic knowledge of the terminal using a shell such as tcsh or Bash.
3. Scripting or programming experience of some kind.
4. Ability to work as part of a technical team.
5. Curious, creative.

Desired skills
In addition to the above, we’re looking for interns that also have some of the following skills.

1. Strong communication skills (written and/or oral).
2. HPC or parallel programming experience.
3. C or systems programming experience.
4. Interesting or novel perspectives. Can you expand our horizons?

The following are the kinds of courses that are beneficial as preparation for the internship and the technical work. We do not expect applicants to have taken all of these – that would be extraordinary!

- Applied computational or numerical methods
- Multivariable Calculus
- Discrete Mathematics
- Linear Algebra
- Probability/statistics
- Algorithms
- Discrete Structures
- Operating systems
- Data structures
- Compilers
- Computer architecture/organization
- System design/engineering
- Electronic circuits
- Digital design
- FPGA programming
VLSI design

The application period is November 1, 2021 thru January 31, 2022. Admissions are on a rolling basis and applicants are strongly encouraged to apply as early as possible to allow sufficient time for review of their application. Applications received after the deadline, as well as incomplete packages, will not be considered. You will receive a confirmation email once your online application has successfully submitted.