

Opportunity Title: ORNL Pathways to Computing Internship Program (PCIP) -

Summer 2020

Opportunity Reference Code: ORNL-HERE-PCIP-Summer_2020

Organization Oak Ridge National Laboratory (ORNL)

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How to Apply Oak Ridge National Laboratory is suspending all new internship appointments, effective immediately, due to health and safety concerns over the COVID-19 outbreak. This includes the Lab's summer 2020 programs.

There is a small chance that the suspension of new internship appointments could be lifted if circumstances change, but for now this move will help minimize the risk to visiting students and to the Laboratory.

For the latest information and guidance, please visit these COVID-19 resources:

- Centers for Disease Control & Prevention: <https://www.cdc.gov/coronavirus/2019-nCoV/summary.html>
- State Department: <https://travel.state.gov/content/travel/en/traveladvisories/ea/novel-coronavirus-hubei-province--china.html>
- Department of Energy: <https://www.energy.gov/coronavirus-hub>

If you have any questions, please contact us at ORNLedu@ornl.org.

Selections will be made on a rolling basis and continuing until applicants have been chosen. To be considered for selection, applications must be fully completed and submitted and two recommendations must be received within the Zintellect system. **For best chance of selection, you must complete your application as soon as possible.**

The application will require:

1. Profile information
2. Education information (i.e. dates of attendance/graduation, GPAs, majors, etc.)
3. Awards and honors
4. Internship and employment information
5. Information on goals, research interest areas, experience, and skills
6. Official transcript or unofficial academic record (most recent available) showing name, school name, current classes, cumulative GPA, received degrees (if applicable)

- **Official transcript will be required if selected and prior to start date**



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7. An updated resume/CV

8. Name and contact information for your professional or academic recommenders

Application Deadline 1/15/2020 3:00:00 PM Eastern Time Zone

Description The Pathways to Computing Internship Program at the Oak Ridge National Laboratory (ORNL) is a 10-week summer program that provides undergraduate students with learning opportunities in computer science, computational science, and mathematics. Students will be mentored by ORNL research and technical staff and will be able to make contributions to projects in diverse domains including computer science, health data science, and climate science. Selected interns will have access to ORNL's leadership-class facilities, including Summit, the world's most powerful supercomputer.

ORNL's Computing and Computational Sciences Directorate oversees an immense store of computing power and its talented staff of computational scientists and mathematicians, conduct state-of-the-art research and development in computer and computational sciences in support of the Department of Energy's missions and programs.

As part of the ORNL Pathways to Computing Internship Program, the Computing and Computational Sciences Directorate is committed to increasing diversity among interns and staff. We believe the teams required to solve the nation's most pressing science challenges are those that bring together a wide range of backgrounds and perspectives. The goal of the program is to improve educational and training opportunities and encourage applications from underrepresented groups in the computing field; however, all eligible candidates are encouraged to apply.

Primary focus areas will include:

- Artificial Intelligence / Machine Learning / Data Science
- Astrophysics
- Bioinformatics / Computational Biology
- Computer Science Research (e.g. compilers, programming models, programming tools)
- Cybersecurity
- Earth and Atmospheric Sciences / Climate Science
- High Performance Computing Operations (e.g. system administration, storage systems, system/user support)
- Performance Profiling & Optimization
- Quantum Computing
- Software Engineering

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- Visualization
- Other computer science areas (e.g. CS theory)
- Other computational areas (e.g. material science, chemistry)

PROGRAM DETAILS

- Start date of June 1, 2020 and ending date of August 7, 2020

Stipend Rate:

Stipends are paid on a biweekly schedule and there will be a delay after starting before you receive your first stipend. **You should be prepared to cover all expenses for the first 30 days of your appointment.**

- \$600 per week

Housing Allowance and Travel To/From Reimbursement:

- \$175 per week housing allowance (paid with stipend) and limited travel reimbursement (up to \$500 total) if permanent address is at least 50 miles from Oak Ridge
- Learn more about [Housing for ORNL Research Participants](#)

For more information, visit [Pathways to Computing Internship Program](#) or [Science Education Programs at ORNL](#) or contact HERE@ornl.org.

Qualifications

Eligibility requirements:





- Must be currently enrolled as a full-time undergraduate student in a degree-seeking program at a regionally accredited U.S. college or university at time of application (including accredited community colleges)
 - Full-time enrollment status is determined by the number of hours or courses the school requires for full-time attendance (as defined by the Internal Revenue Service)
 - Graduating seniors in December 2019 or May/June 2020 will not be eligible for application or selection as continuation as an undergraduate in fall 2020 is required
- Must have completed at least one year as a matriculated undergraduate student at the time of applying
 - Freshmen (at time of application) are not eligible and Advanced Placement credits or other undergraduate credits obtained prior to undergraduate enrollment cannot be applied to meet the minimum one-year completion requirement
- Must have a cumulative minimum GPA of 3.0 on a 4.0 scale
- Be 18 years of age at time of application

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- Have medical insurance effective for entire term of appointment - information on effective dates during appointment period will be required at time of appointment acceptance
- Have two academic or professional recommenders
- Have ORCID identifier number at time of acceptance

Eligibility Requirements

- **Degree:** Currently pursuing an Associate's Degree or Bachelor's Degree.
- **Overall GPA:** 3.00
- **Discipline(s):**
 - **Chemistry and Materials Sciences** (12 )
 - **Computer, Information, and Data Sciences** (16 )
 - **Earth and Geosciences** (21 )
 - **Engineering** (4 )
 - **Environmental and Marine Sciences** (3 )
 - **Life Health and Medical Sciences** (18 )
 - **Mathematics and Statistics** (10 )
 - **Other Non-Science & Engineering** (2 )
 - **Physics** (16 )
 - **Science & Engineering-related** (1 )
 - **Social and Behavioral Sciences** (2 )
- **Age:** Must be 18 years of age

Affirmation I certify that:

- To the best of my knowledge all information contained in this application is accurate
- I understand that any falsification will render me ineligible for participation and, if found after participation has begun, may require me to reimburse any funds received
- I have confirmed that I meet all eligibility requirements