What is Computing Research? How Can I Participate?

Why participate in research opportunities?

- Earn stipend, scholarship, or credit
- Think through (and even solve!) challenging problems
- Gain knowledge and expertise
- Work with accomplished researchers
- Prepare for graduate school
- Learn life-long skills
- Build professional relationships
- Apply and discover new ideas and methodologies
- Improve your communication skills
- Contribute to a specific area of knowledge

How do you find research opportunities?

Ask your professors and mentors for opportunities. Visit research groups in your department.

Search for “Undergraduate Research Experience” on the web.

Here’s just a sample of what you’ll find:

- CRA-W Undergraduate Research Programs: CREU and DREU, see back of this page
  https://cra.org/cra-w/for-undergraduates/
- National Science Foundation Research Experiences for Undergraduates (REU):
  https://www.nsf.gov/crssprgm/reu/reu_search.jsp
- COmputer ScieNce UndErgraduate Research (CONQUER) resources:
  http://conquer.cra.org/
- Department of Navy (DoN) programs for college students:
  http://nreip.asee.org/
- NSERC USRA in Canada: inquire with your department to find out how it works at your university.
- Research Internships in Science and Engineering in Germany
  https://www.daad.de/rise/en/
- HKU CS Research Internship Programme:
  http://www.cs.hku.hk/rintern/

When to apply?

<table>
<thead>
<tr>
<th>Private Companies, Government Labs</th>
<th>Mid Fall – February</th>
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<tr>
<td>DREU and NSF REU programs</td>
<td>Mid February to Mid March</td>
</tr>
<tr>
<td>CREU program</td>
<td>Mid May</td>
</tr>
<tr>
<td>Your College / University</td>
<td>Often early in the calendar year</td>
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These are typical due dates – many places start accepting applications and awarding positions much sooner. **Start Early!**

Visit us at cra.org/cra-w/
Follow us @CRAWomen
CRA-W Undergraduate Research Programs

(For more comparison information: https://cra.org/cra-w/dreu/#compare-to-creu)

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<thead>
<tr>
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<th>DREU</th>
<th>CREU</th>
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<tr>
<td>Time</td>
<td>Summer (10 weeks)</td>
<td>Academic year plus optional summer</td>
</tr>
<tr>
<td>Stipend per student</td>
<td>$7000 per summer; relocation travel assistance when appropriate</td>
<td>$1500 per semester and $4000 during optional summer extension</td>
</tr>
<tr>
<td>Location</td>
<td>Mentor’s institution</td>
<td>Student’s institution</td>
</tr>
<tr>
<td>Deadline to apply</td>
<td>Mid February</td>
<td>Mid May</td>
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**What to include in your Undergraduate Research Resume**

- Relevant courses
- GPA - You’ll also typically need to submit a transcript
- Major projects
- Publications (if you have them; most undergraduates don’t)
- Work experience
- Languages, tools, etc. including level of proficiency

**Be careful, neat, and honest**

**Additional Resources:**

- CRA-W resources for undergraduates: https://cra.org/cra-w/for-undergraduates/
- Virtual Undergraduate Town Hall Series: https://cra.org/cra-w/undergrad-town-hall-series/