

2024 Physics/AP/SLAC Summer Research



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SURP 2024 Info Session

Please sign in for attendance:



2024 Physics/AP/SLAC Summer Research



SOLVAY CONFERENCE 1927

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P. DEBYE M. KNUDSEN W.L. BRAGG H.A. KRAMERS P.A.M. DIRAC A.H. COMPTON L. de BROGLIE M. BORN N. BOHR
I. LANGMUIR M. PLANCK Mme CURIE H.A. LORENTZ A. EINSTEIN P. LANGEVIN CH. E. GUYE C.T.R. WILSON O.W. RICHARDSON
Absent: Sir W.H. BRAGG, H. DESLANDRES et E. VAN AUDEL

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2024 Research Schedules

- 10 weeks during the summer:
 - June 24 – August 30
 - Plan to be here the entire summer
- 6-minute research presentations
 - Tentative: August 30
 - If you end up being part of the program, please plan travel after 6 PM August 30

Research Opportunities

- In-person research on-campus likely; remote alternative research plan still required
- Some projects require minimal to no experience and are a great way to get experience
- Research outside Stanford linked [here](#)

TYPICAL DAY



TYPICAL DAY

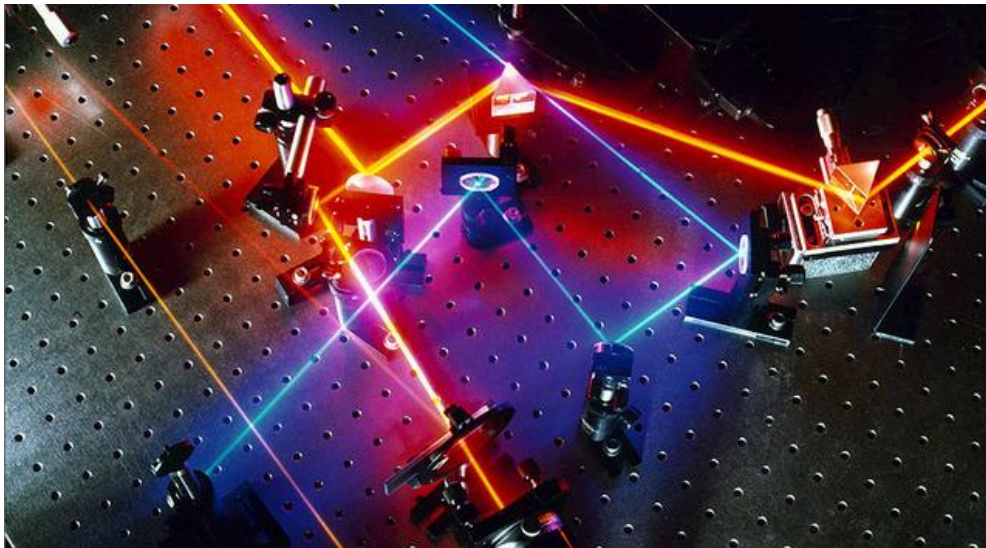


TYPICAL DAY



What you'll do

- Depending on Experience:
 - *Assist grad student: build/assemble hardware and/or electronic circuits*
 - *Code: analyze data, simulations*
 - *Do independent project*



Responsibilities

- ~40 hrs/wk as part of research group
- Attend mandatory weekly faculty talks, professional development sessions
- 6-minute presentation to peers and faculty mentors at end of summer
- Social events (e.g. LN2 ice cream; board games, movie nights, etc.)

Your Daily Contact

- *Your daily contact might be the faculty member or a postdoc or grad student in the group*

Eligibility

- Sophomores and juniors must be declared Physics or Engineering Physics by application due date
- Frosh need not be a declared major but must have completed or be taking an introductory physics course by the winter quarter
- Those with prior funding must apply for Major Grant – **Start Now**
- *Co-terms must not have received B.S./entered Graduate Career*

Stipend

- 10 weeks only; dynamic stipend amount for room/board/travel/expenses
 - \$7500 core stipend
 - Need-based adjustment up to \$1500
- Live on campus or find your own place
- Please do not take on additional volunteer or paid part-time or full-time commitments

Funding Options

- Frosh, soph, or those who have never done research: Apply to summer research program
- Students who have received prior physics funding: Apply for a VPUE Major Grant
- Everybody: Ask your faculty mentor if they have funding to support you
- **Biophysics** research: Bio-X program

Deadline: January 18, 8 AM PST

Details: <https://biox.stanford.edu/research/undergraduate-research>

Contact: Gabriella M. Herman, gherman@stanford.edu

Strategy 1: Which years?

- 1st year:
 - Go home,
 - Get a job,
 - See high school friends
- 2nd year: Research in Physics

Strategy 2: Which years?

- 1st yr: do research here, get some experience/skills
- 2nd year: apply to non-Stanford programs, industry jobs
- 3rd year: focus on research here
 - Senior Thesis/Major Grant

What You Need To Do

- Check web page of open positions and areas, find faculty and/or areas of interest and for which you have the skills
- Follow instructions and complete the first part of the application form (tentatively noon, January 19, 2024)

Application (2nd part)

- Get signed form from **Faculty Mentor** (ask the person you are talking with if they are faculty or not)
- Submit online application with $\frac{1}{2}$ page summary of what you will be working on
- ***Tentatively due February 23, 2024 but the sooner, the better***
- Don't delay!
- Prior year participation considered

General Support

- Faculty Talks and professional development sessions (weekly)
 - Setting goals for research over the quarter
 - Coding boot camp (?)
 - Time Management
 - Career paths/Alumni panel
 - Graduate school
 - Communication in science
 - Exposure to multiple subfields of physics
 - ...etc.

Website

<https://physics.stanford.edu/undergraduate-research>

- FAQs
- Table of open positions link is up
- These Slides

