

2023 Physics/AP/SLAC Summer Research



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SOLVAY CONFERENCE 1927

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Absent: Sir W.H. BRAGG, H. DESLANDRES et E. VAN AUDEL

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Reminder to turn on recording

Research Opportunities

- Research “on-campus” likely possible, depending on the COVID status; 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

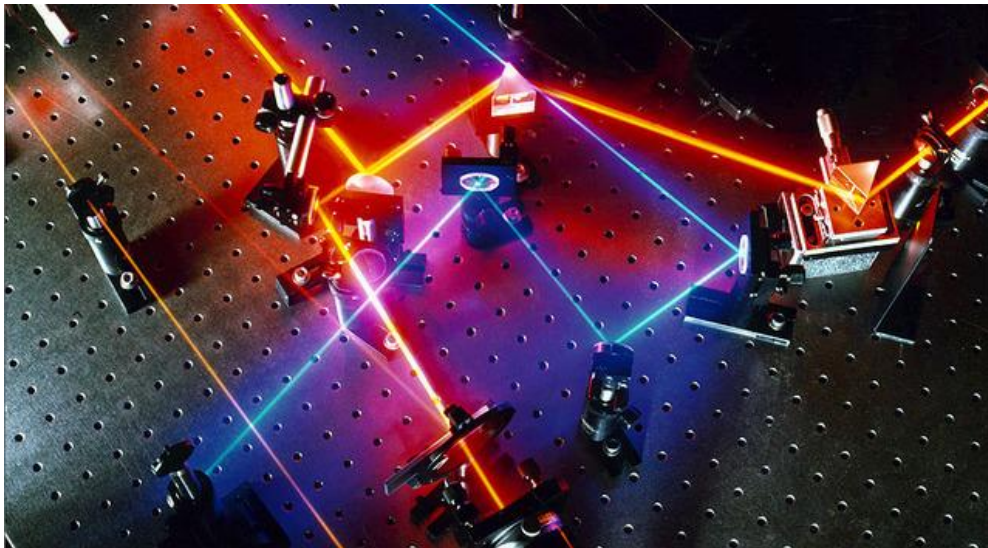


TYPICAL DAY



What you'll do

- Depending on Experience:
 - *Assist grad student: build/assemble hardware and/or electronic circuits*



What you'll do

- Depending on Experience:
 - Assist grad student, mech assembly, build circuits
 - Code: analyze data, simulations
 - Do your own independent project
- *Your daily contact might be the faculty member, post doc, grad student*

Responsibilities

- ~40 hrs/wk as part of research group
- Attend 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 game time... TBD based on COVID

2023 Research Schedules

- 10 weeks during the summer:
 - June 26 – September 1
- 6-minute research presentations
 - Tentative: September 1

Stipend

- 10 weeks only; dynamic stipend amount for room/board/travel/expenses
 - \$7500 core stipend
 - Need-based adjustment up to \$1500
- Live on campus (COVID pending) or find your own place

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 19, 8 AM PST

Details: <https://biox.stanford.edu/usrp2023>

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

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*

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 by January 20, 2023.

Application (2nd part)

- Get signed form from Faculty Mentor
- Submit online application with $\frac{1}{2}$ page summary of what you will be working on
- ***Due February 24, 2023 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 [currently outdated, we will update]
- Table of open positions (coming soon!)
- These Slides

