2024 Physics/AP/SLAC Summer Research

physics-summer-research.stanford.edu
SURP 2024 Info Session
Please sign in for attendance:
2024 Physics/AP/SLAC Summer Research
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
• 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?

• 1\textsuperscript{st} yr: do research here, get some experience/skills
• 2\textsuperscript{nd} year: apply to non-Stanford programs, industry jobs
• 3\textsuperscript{rd} 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 ½ 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