PLU College of Natural Sciences



SUMMER RESEARCH 101

Nov. 25, 2025

Rieke 103B

Prof. Neal Yakelis

he/him

11:40 AM - 12:05 PM

PLU Dept. of Chemistry

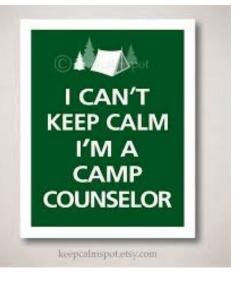
Pre-Health Sciences Advising Team



amazon



Summer jobs





Hold on! I can get a summer job doing scientific research?

What is your why?

stemcell fieldresearchfoodscience bioinformatics publichealth engineering interdisciplinary biomedicalresearchcuriosity graduateschool phd progress masters cuttingedge explore biostatistics biogeochemistrymaterialsscience awayfromhomepharmaceuticals oceanscience independencevaccines

Summer research internships can literally open doors: careers, education, mentors, & what you are going to do with your life!

Application Process: November - March

- 1. Discern and explore opportunities
- 2. Talk to PLU professors Letters of Rec.
- 3. Prepare a STEM-focused resume
- 4. Personal Statement
- 5. Download unofficial transcripts
- 6. Apply, apply, apply, apply.

NSF REU ◆ SULI ◆ SURF ◆ SURP ◆ INTERNSHIPS Overview: SUMMER UNDERGRADUATE RESEARCH PROGRAMS and INTERNSHIPS

- Typically run 8-10 weeks
- Full-time positions, pay stipend approx. \$5000-7000
- Often, housing stipend or arrangements are included
- Often, travel is covered if out of state
- Provide opportunity to learn about grad school & careers
- MOST ARE HIGHLY COMPETITIVE, but depend on location and research area

Division of Natural Sciences

// Summer Undergraduate Research Program



Natural Sciences Summer Undergraduate Research Program



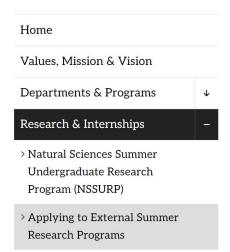






- http://www.plu.edu/nsci/undergraduate-research-program/
- 5-10 weeks (June early Aug)
- PLU faculty members mentor students
- 2025 stipend \$6512/10 weeks
- Application launches January/February 2026
- RIEKE RENOVATIONS IMPACT SUMMER 2026







https://www.plu.edu/natural-sciences/applying-to-external-summer-research-programs/

National Science Foundation (NSF) Research Experiences for Undergraduates (REU)

- 8-10 weeks
- Faculty/grad student/postdoc mentors
- Professional skills and social activities
- Housing often included (dorm, shared house)
- Stipend \$5000-\$7000
- Application deadlines vary, but start in Dec.
- Some targeted programs (first-years, international experiences, etc.)
- Some are in PNW: UW, WSU, UO, OSU, etc.

- Other federal agencies to explore Google with "undergraduate research" or "summer research" or "internships"
 - * Must be US citizen, national, or permanent resident
 - NIH (National Institutes of Health)
 - Department of Energy (SULI)
 - USGS
 - NOAA
 - Department of Defense
 - National Cancer Institute
 - Centers for Disease Control (CDC)
 - Others explore!

◆ Individual companies/institutes Google with "undergraduate research" or "summer research" or "internships"















Catalog of Biomedical Internships (updated each year)

fredhutch.org/content/dam/www/about-us/internships/surp/internships.pdf

2. Talk to PLU professors – Letters of Rec.

Before selecting letter-writers, reflect upon: What would a professor write about you?

- Set up an appointment to chat with some STEM professors, advisors, or mentors about your interests and goals. Maybe even alumni via LuteLink?
- What happens when a professor writes a letter behind the curtain?

Longest step and most work – writing a letter **Super easy/quick** – submitting it to lots of programs. **APPLY BROADLY** – 10+ is common

3. Prepare a STEM-focused resume

- STEM COURSES YOU HAVE TAKEN OR ARE TAKING Jan/St
- RESEARCH and LAB COURSE PROJECTS
- LAB TECHNIQUES AND INSTRUMENTS
- SOFTWARE/HARDWARE KNOWLEDGE
- WORK EXPERIENCE (summarized)

See examples on web page ...

5. Download unofficial transcripts

- PLU from Banner (print as PDF)
- Any two-year community colleges or other institutions

4. Personal Statement

Ex: Personal statement writing prompt for summer research programs:

Describe your primary motivations for wanting to participate in this summer research program. Identify three faculty members whose research you are interested in, and briefly explain why.

How do I start writing one? How do I avoid clichés?



- What's your story in science?
 - > What has inspired you?
 - > What are you most curious about?
 - > Who has inspired you?
 - > Why is studying science meaningful to you?
 - > Why did you come to PLU to study science?
 - > What goals do you consider?
- * How do your specific life experiences shape who you are as a student now & the impact you want to make in the world?

Personal Statement Tips

Audience = Potential research mentors (PhDs) reviewing apps

- 1. Answer the questions that are asked of you
- 2. Narrative is powerful.
- **3. Be reflective** what impact did experiences have on you?
- **4. Connect the dots** for the reader.
- **5.** The hook! Hook in your reader in first sentences.
- **6. Do your web research.** Mention specific groups, projects, and articles that are interesting to you. Remember your audience is the mentors looking for motivated students.
- 7. A perfect final draft. Grammar & spellcheck. Proofreaders like faculty and Career Services.
- 8. Avoid clichés. "I like science and want to help people."