

APPLICATION FOR THE YEAR 2025 SUMMER UNDERGRADUATE RESEARCH PROGRAM

June 3, 2025 - August 8, 2025

APPLICATION DEADLINE: Friday, February 21, 2025 to Eric Hill, AHN 127

REQUIREMENTS:	 Participation in weekly semi Final poster report. 	inar/lunches, including giving one presentation.
Name:(Please Print Legibly)		Student I.D. #
Local Address:		Current Local/Cell Telephone #:
		-
Email Address (that is checked re	gularly)	
Cumulative GPA:	Major:	Minor:
Status: First Year	Sophomore	Junior
finances, which students to (Remember the FACULT)	-	nk your choices with most preferred being form.) your ranking
Print Name	Signature of fac	culty
Print Name	Signature of fac	culty
Print Name	Signature of fac	culty
Print Name	Signature of fac	culty

Required Final Report: All research students must submit a poster presentation of the work accomplished. Guide sheets are available from the Office of the Director, Center for Science and Mathematics. The faculty advisor may require an additional written report as a more formal record of the work completed. A poster presentation summarizing your work and results will be posted in the glass cases in Hedco Hall by **Wednesday**, **September 24**, **2025**.

Plea	se answer these questions to the best of your ability, either written legibly or typed.
1.	In what way would a summer research project fit into your college learning goals and/or post college plans? What do you hope to get out of a summer research project?
2.	List courses you have taken that would be useful to the research in your chosen topics and your GPA in these courses only.
3.	Describe any previous experience that you think is applicable to summer research. For example: (a) a previous research experience that you have had, (b) a course you took and how it prepared or inspired you to do research, or (c) skills you have developed that could be useful to research.
NO'	TE: You will be notified when the final selection process is complete. At that time you MUST

NOTE: You will be notified when the final selection process is complete. At that time you MUST meet with your faculty advisor to complete a "Terms of Agreement" and "Acceptance Form".

SUMMER RESEARCH FACULTY 2025

This list contains the Science Center faculty who may take students this summer. You will see their names, a very general description of their research, and any qualifications they expect of students who apply to work with them. Please go talk to any of them who interest you before filling out the application form.

BIOLOGY

Olson, Lisa...... Studying the impact of melatonin-containing lotion on humans.

Forristall, Caryl...... Using Xenopus embryos to investigate hormonal pollutants

Ryan, Bryce...... Studying the impacts of environmental pollutants on the physiology and behavior of mice

VanOverbeke, Dustin... Malaise trap sampling of insect biomass for the North American Insect Abundance Network and developing a camera trap for pollinators.

Those interested in Biomedical research at Loma Linda should talk to Bryce Ryan

CHEMISTRY

David Schrum The analytical determination of kidney and bladder stone-causing minerals and compounds found in commercial dog food brands. Students need to have taken CHEM 330 to be considered for this project.

Rebecca Lyons

The Lyons research group is investigating the uptake of environmental pollutants into medicinal plants. We are interested in the effect of these pollutants on the safety and efficacy of herbs as medicine. We analyze active constituents of the plant material and relate that to the amount of pollutant present in the soil and plant. Research will be conducted at the surf garden on campus. Participants must also be willing and able to engage in field work in the mountains, which involves hiking at high altitudes. Additionally, we will do experimental design and run analysis in the laboratory. Applicants must have at least two years of chemistry and an interest in medicinal plant chemistry.

KINESIOLOGY

Nelson, Kendra...... Studying the effects of foam rolling on force production and asymmetry during double leg squats. Prefer that students have taken BIO 317.

MATH/CS

Morics, Steve.....Come by, and we'll talk.

PHYSICS

Hill, Eric.....Drop by and we can discuss projects

Hoecker-Martinez, Martin ... Drop by and we can discuss projects.