

SLI STEM Summer Internships 2024: Information Session

March 2024





Why do I need an internship??

- ▶ Put your school/ classroom knowledge into real practice.
- ▶ Get experience in the working world in your discipline - see if it's really for you!
- ▶ Build your resume and skills.
- ▶ Challenge yourself!
- ▶ **LEARN!**



Overview of SLI Internship Program

- ▶ part-time, paid internships for the summer for Foothill students
- ▶ chance to get your FIRST internship experience (you need experience to get experience!)
- ▶ research and industry placements
- ▶ lots of support from SLI during your internship



Agenda for Today

1. Eligibility
2. Commitment
3. Application
4. Project Catalog
5. Timeline
6. Miscellaneous Notes
7. Next Steps
8. Wrap Up

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Eligibility

- ▶ Classes at Foothill in winter and spring
- ▶ Primarily Foothill (not De Anza) student
- ▶ Over 18
- ▶ Priority to
 - ▶ no prior internship
 - ▶ first generation college student
 - ▶ low-income

Eligibility

- ▶ Classes at Foothill in winter and spring
- ▶ Primarily Foothill (not De Anza) student
- ▶ Over 18
- ▶ Priority to
 - ▶ no prior internship
 - ▶ first generation college student
 - ▶ low-income

Common questions

- I'm a dual enrollment student in a Foothill class - can I apply?
 - Only if you turn 18 by the time the internships start on July 8
- I've only taken one class at Foothill - can I apply?
 - We prioritize Foothill students, so there's a chance you may be accepted.

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Commitment

- ▶ orientation before end of spring quarter + training July 2
- ▶ July 8 - September 6
 - ▶ 15 or 20 hours per week for 9 weeks
- ▶ If transferring - need to complete your internship
- ▶ ITRN course
- ▶ biweekly cohort session with other interns
- ▶ final presentation

Commitment

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- ▶ July 8 - September 6
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- ▶ If transferring - need to complete your internship
- ▶ ITRN course
- ▶ biweekly cohort session with other interns
- ▶ final presentation

Common questions

- I'm transferring in the fall - can I apply?
 - Yes! You'll just need to make sure you complete the internship, including final presentation - this can happen even after you've transferred.
- Can I take summer classes while doing an internship?
 - Yes, just make sure your schedule works

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Application

- ▶ Academic Works scholarship application - 2 parts
 - ▶ General application → click submit
 - ▶ SLI STEM Internship application → supplementary questions → click submit
- ▶ Other items needed - as part of supplementary application
 - ▶ reference (not recommendation letter)
 - ▶ transcript
 - ▶ My Story Essay

Application - General Application

My Applications | Opportunities | Donors | kimsophia@fhda.edu

Application Progress

- General Application ①
- Other Recommended Opportunities

Once you are done updating your information, please save your application by clicking **Update General Application** at the bottom of the form.
Note: Required fields are marked with an asterisk.

General Application Questions

Nickname or Alternative Name:

* Are you a veteran of the US military who was honorably discharged?
 Yes
 No

* Employment Information - Answer 1 time.

* 1. Are you currently employed? 1
 Yes
 No

* 2. If yes, what is your occupation and approximately how many hours per week do you work? If no, please enter "None".

* Current living arrangement:

* Number of Dependents:

For purposes of this scholarship application, a dependent is defined as someone, other than your spouse, who receives more than half of their financial support from you.

Please list each dependent's age and relationship to you.

* 3. Major:

If the school listed is your High School, write General Education for the Major.

* 4. Which academic discipline does the major belong to?

* 5. Did you earn a diploma, certificate and/or degree from the school?
 Yes
 No

* 6. If yes, what type of diploma, certificate and/or degree did you earn?

Advanced Certificate of Achievement
Associate's Degree
GE for transfer to 4-yr
Bachelor's Degree

To select multiple items, hold control or command and click each one. Select all that apply.

* 7. How many years did you attend the school?

* 8. What was the last date (month and year) you attended the school?

[Add Another Answer](#)

* Which academic discipline does your current major at Foothill or De Anza belong to? If you have more than one major and they belong to different disciplines, please select all disciplines that apply.

4. Creative/Fine Arts
5. Language Arts
6. Physical Education/Athletics
7. Science (Physical and Biological), Math and Engineering

To select multiple items, hold control or command and click each one. It is very important that you answer this question accurately. If you are uncertain which academic discipline your major belongs to, please contact the Financial Aid Office at your primary school for assistance.

* What term and year do you expect to finish your current educational goal at either Foothill or De Anza? - Answer 1 time.



* 1. Terms:

[Update Your Application](#)

Application - My Story Essay

* Please write an essay titled "My Story" that tells us about you. Your essay should be single spaced and not exceed one page. Be specific about your academic and career goals, and how you plan to reach those goals. Discuss any obstacles you have overcome and any specific financial needs you have. This is your opportunity to share with us what makes you unique and deserving of a scholarship.

Example Formatting: *bold*, _italics_

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sample here

* How did you hear about Foothill and/or De Anza scholarships? (Select all that apply.)

Financial Aid Office website
Scholarship listserv
My support program: EOPS, DSS, Puente, Pass The Torch, etc.

To select multiple items, hold control or command and click each one. Select all that apply.

* I certify that all of the information provided as part of this application is truthful and accurate to the best of my knowledge. Furthermore, I understand that providing false or misleading information will jeopardize my opportunity to receive a scholarship award and may be reported to the Student Discipline Officer for appropriate institutional steps. I authorize the release of any information contained in my scholarship application, including academic transcripts, essays, or responses to questions, to Foothill and De Anza colleges for the purposes of the selection process and donor communication. Further I authorize the release of my essays for donor purposes and/or fundraising purposes to the Foothill-De Anza Foundation. Students who wish not to have their information shared must contact their college Financial Aid Office. - Answer 1 time.

Prompt:

* Please write an essay titled "My Story" that tells us about you. Your essay should be single spaced and not exceed one page. **Be specific about your academic and career goals, and how you plan to reach those goals. Discuss any obstacles you have overcome and any specific financial needs you have.** This is your opportunity to share with us what makes you unique and deserving of a scholarship.

Application - Supplementary Application

My Applications	▼ Opportunities	Donors	▼ kimsophia@fnda.edu
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Foothill SLI STEM Internship Scholarship: Summer STEM Internships 2024

Opportunity not officially open yet, this is just a test application

Description: SLI Summer STEM Internships 2024

Through the Science Learning Institute (SLI), Foothill College students will have an opportunity to engage in an internship either in research or industry, under the guidance of a mentor/ supervisor. Institutions and companies include Stanford University, UC Santa Cruz, and other tech companies in the Bay Area. Please see the Project Catalog before you fill out the application.

Find out more at SLI's webpage: <https://foothill.edu/slifinternships/summer.html>

Award amount and duration of internship: amount varies depending on internship selected

- 15 hours per week for 9 weeks – \$2600
- 20 hours per week for 9 weeks – \$3500

Scholarship payments will occur in two installments and will depend on successful completion at each stage: one in the middle of the internship and one at the end after completion of the final report and final presentation.

Important Dates
(make sure you can attend for all these days. Vacations and transfer schedules should accommodate these dates)

- Mandatory training for all interns (2 options) – Tues, July 2, 2024
- All internships start: week of July 8, 2024
- All internships end: week of September 2, 2024
- Final presentations – Thurs, Sept 5 and Fri, Sept 6 (two options)

If you are transferring to another institution in late summer/ fall 2024, keep in mind you are expected to finish your internship through the end date in order to get your full scholarship. If this is not possible, you will need to make other arrangements with SLI and your mentor/ supervisor BEFORE your internship starts.

Application deadline: Wednesday, May 1, 2024, 11:59pm

Internship requirements:

All internships require:

- Summer enrollment in ITRN with Dr. Miloni Gandhi (depends on projected number of hours of internship). Course tuition will be covered by the Science Learning Institute or your financial aid.
- A program orientation before the end of spring quarter and a training before the internship starts (7/2/24). These are run by the Science Learning Institute.
- Submission of a final report of your internship experience at the end of the summer.
- Final presentation in early September for an audience of all interns and mentors in the program.
- Attendance at a biweekly (every other week) cohort seminar on professional development topics (included in your hours/week) – total of four seminars – all required.

Award
varies depending on internship selected

Scopes
Foothill College

Deadline
03/15/2024

Supplemental Questions

1. Please select your top choice of project. Write a short paragraph that answers the following for this choice: 1. Number and short title of project 2. Why are you interested in this project and how do you meet the qualifications? 3. How do you see it advancing your academic and professional goals?
2. Please select your second choice of project. Write a short paragraph that answers the following for this choice: 1. Number and short title of project 2. Why are you interested in this project and how do you meet the qualifications? 3. How do you see it advancing your academic and professional goals?
3. Please select your third choice of project. Write a short paragraph that answers the following for this choice: 1. Number and short title of project 2. Why are you interested in this project and how do you meet the qualifications? 3. How do you see it advancing your academic and professional goals?
4. Please select your fourth choice of project. Write a short paragraph that answers the following for this choice: 1. Number and short title of project 2. Why are you interested in this project and how do you meet the qualifications? 3. How do you see it advancing your academic and professional goals?
5. Please select your fifth choice of project. Write a short paragraph that answers the following for this choice: 1. Number and short title of project 2. Why are you interested in this project and how do you meet the qualifications? 3. How do you see it advancing your academic and professional goals?
6. Make sure to review the modality of the internship(s) you chose (in-person, remote, hybrid). Which modalities will you be able to participate in?
7. Have you had a prior internship?
8. If you have had a prior internship, please explain briefly.
9. Are you a first time degree earner at Foothill College? (this means you have not completed any degrees at any other institutions)
10. Are you taking 6 units of credit or more, for spring quarter 2024? This is a requirement for this internship.
11. Please share if you are taking any courses for summer 2024. This is not required, but we recommend that you not take more than one class for the summer if you have a regular internship.
12. We prioritize students who have demonstrated financial need or hardships. Please explain any circumstances that help describe your need for financial support. If this part is not filled out, your application may not receive consideration. One paragraph suggested.
13. Please share the name, title, institution, and contact information (email address) of a faculty or staff member who knows you well. They may be contacted as a reference for your application. (If you are a SLI student, you cannot use Sophia as a reference.)
14. Please upload your most recent resume.
15. Please upload a copy of your current unofficial grade transcript from Foothill College. You can download your unofficial transcript by going into your Student Registration app in your MyPortal. Then My Records - View Unofficial Transcript.
16. Please share any final explanations or comments for the scholarship committee to consider when reviewing your application.

Apply

Application - Supplementary Application

Foothill SLI STEM
Internship Scholarship:
Summer STEM
Internships 2024

Description

Opportunity not officially open yet, this is just a test application Description: SLI Summer STEM Internships 2024 Through the Science Learning...

Deadline

03/15/2024

Category

New

Supporting Documents

Applicant Record

Profile

You can save your application at any time by clicking **Save and Keep Editing** at the bottom of the form. Once completed, you can submit your application by clicking **Finish and Submit**.
Note: Required fields are marked with an asterisk.

Application Questions

* Please select your top choice of project. Write a short paragraph that answers the following for this choice: 1. Number and short title of project 2. Why are you interested in this project and how do you meet the qualifications? 3. How do you see it advancing your academic and professional goals?

Example Formatting: **bold**, *italics*

B *I* [List Icons] [List Icons] Help Preview Edit

Please select your second choice of project. Write a short paragraph that answers the following for this choice: 1. Number and short title of project 2. Why are you interested in this project and how do you meet the qualifications? 3. How do you see it advancing your academic and professional goals?

Example Formatting: **bold**, *italics*

B *I* [List Icons] [List Icons] Help Preview Edit

Please share if you are taking any courses for summer 2024. This is not required, but we recommend that you not take more than one class for the summer if you have a regular internship.

* We prioritize students who have demonstrated financial need or hardships. Please explain any circumstances that help describe your need for financial support. If this part is not filled out, your application may not receive consideration. One paragraph suggested.

* Please share the name, title, institution, and contact information (email address) of a faculty or staff member who knows you well. They may be contacted as a reference for your application. (If you are a SLI student, you cannot use Sophia as a reference.)

* Please upload your most recent resume.

[Edit File Description](#)

[View or Add a New File](#)

* Please upload a copy of your current unofficial grade transcript from Foothill College. You can download your unofficial transcript by going into your Student Registration app in your MyPortal. Then My Records - View Unofficial Transcript

[Edit File Description](#)

[View or Add a New File. Must be: pdf](#)

Please share any final explanations or comments for the scholarship committee to consider when reviewing your application.

Save and Keep Editing

Finish and Submit

Application

- ▶ Academic Workshop scholarship application - 2 parts
 - ▶ General application → click submit
 - ▶ SLI STEM Internship application → supplementary questions → click submit
- ▶ Other items needed - as part of supplementary application
 - ▶ reference (not recommendation letter)
 - ▶ transcript
 - ▶ My Story Essay

[Go to Academic Works website](#)

Common questions

- I already completed a scholarship application, is that all I need to do?
 - No, make sure you ALSO do the SLI STEM Internship scholarship application.

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Project Catalog

- ▶ PDF of catalog - 2 parts
 - ▶ quick links table
 - ▶ full description
- ▶ Pay attention especially to
 - ▶ number of hours and stipend
 - ▶ modality
 - ▶ required skills

Project Catalog



SLI STEM Internships Summer 2024: Project Catalog

CHECK BACK PERIODICALLY BECAUSE THIS DOCUMENT MAY BE EDITED (PROJECT WILL BE ADDED AND THERE MAY BE EDITS TO EXISTING PROJECTS). WE WILL MAKE NOTE OF EDITS HERE AND ON THE SLI INTERNSHIP WEBSITE.

The following are the possible internship projects you will be working on this summer if selected. In your application, you will be asked to mark all that you are interested in. You may select no more than 5 to apply to.

There are two parts of this catalog:

- **Quick Links Table of Contents** – contains key information about each project. Click on the hyperlink to go to the full description below.
- **Project Full Descriptions** – read each project's full description to make sure this is a project you are interested in. In your application, you will want to explain your interest in each of your selected projects.

You will see that some projects are listed multiple times because they are interdisciplinary or cross disciplinary.

Read through each description carefully to see if

- 1) You have the skills that the mentor/ supervisor is asking for.
- 2) You have an interest in the project.
- 3) The modality works for you – several of these are in-person, either fully or partially. You will need to provide your own transportation to the [institution](#) and some have parking fees.
- 4) Use this as a guide as you fill out the application. READ IN FULL DETAIL!

If you have any questions, please reach out to the SLI Director, Sophia Kim at kimsophia@fhda.edu or Amanda Carbajal at carbajalamanda@fhda.edu We may be able to provide support with the application process. Find out more at the website: <https://foothill.edu/sli/internships/summer.html>

QUICK LINKS TABLE OF CONTENTS

BE SURE TO REVIEW THE FULL DESCRIPTION BELOW THIS TABLE OF CONTENTS!

**Some projects are cross-disciplinary and may appear under multiple disciplines*

BIOLOGY/CHEMISTRY				
Project Title	Keywords	Required Skills	Modality	Institution/ Company
1. Feeling salty: discovering how San Francisco flies have evolved to live in extreme environments	Biology	Strong candidates will have an introductory understanding (and enthusiasm!) of genetics and evolutionary biology. Previous experience in a basic molecular biology lab (e.g. Biology Lab Course) and fundamental skills such as pipetting and sterile technique are preferred. All students studying brine flies are expected to spend ~1 day/week in the field (around the Bay Area, usually a drive <2 hours) assisting in specimen collections.	Fully in-person/ Mostly hands-on/ in-lab experience	Stanford University, Department of Biology

2. Evolution of pigment patterns in swordtail fish	Biology	Interest in evolution, behavior, or fish is the only requirement. Some background in biology – particularly evolution and genetics – is useful, but willingness to learn and ask questions is more important.	Fully in-person/ Mostly on the computer/ computational research/ Mostly literature search, background research in-lab experience	Stanford University, Department of Biology
3. Invasive plant success in a changing climate	Biology	An ideal student researcher for these projects will have enthusiasm for learning new things, be reliable, detail-oriented, well-organized, have good communication skills, and will be comfortable working outdoors, including in adverse weather conditions typical of California. This project is well-suited to beginning researchers and no prior experience is necessary, though experience with plant identification, data management and analysis, or basic machine shop skills may be beneficial!	Mostly hands-on, in-lab experience/ The work is mostly hands-on, including work in the lab/ at an outdoor experiment, and at local field sites	Carnegie Institution for Science, Department of Global Ecology
4. Building PDBCleanV2, a Python library to curate molecular structures	Biology, Chemistry, Computer Science, Data Science	Basic knowledge of Python (completion of CS 3A) and general chemistry/ biochemistry (completion of Chem 1A) is preferred but not required. It would be good to have some comfort using the terminal (Unix/Linux systems). But also, if this project excites you, you don't have the exact courses, but you have a desire to learn more, then select this project!	Hybrid- remote/ online with some in-person opportunities/ Mostly on the computer, Mostly literature search, background research computational research	Stanford University, Department of Structural Biology
5. Discover the world of digital infrastructure and understand how the internet works behind the scenes	Biology, Chemistry, Computer Science, Data Science, Engineering, Mathematics, Physics, STEM Education/ Empowerment	Willingness to learn	Fully in-person	Evocalite-Marketing
6. Utilizing Machine Learning to Create Non-Invasive Biopsy for Early Detection of Cancer	Biology, Chemistry, Computer Science, Data Science, Engineering, Medicine, Physics	Ideally the student has taken at least one quarter or equivalent of computer science in python, ideally used codecademy before for classes or fun. Students should have an interest in learning machine learning models.	Fully in-person/ Mostly on the computer, computational research, Mostly literature search, background	Stanford University, Department of Structural Biology

PROJECT FULL DESCRIPTIONS

Discipline	Biology
Project Title	1: Feeling salty: discovering how San Francisco flies have evolved to live in extreme environments
Mentor, Title	Kirsten Verster, Postdoc
Institution/ Affiliation	Stanford: Biology
Institution/ Company Website	https://hadjilab.stanford.edu/
Company Description/ Mission	We envision a world that puts diversity first, in all living systems, wild and human. Just like biodiversity in the ecosystems we study, diversity in any system confers strength, resilience, and beauty. We actively bring together and integrate a diverse set of people, perspectives, scientific methods, tools, ecosystems and time-scales.
Mentor Bio	I'm a pretty extroverted Cuban-American woman from Miami. I am very interested in Cuban music history, and teach salsa dance, salsa musicology, and have a fun little blog called "Salsa & Storytelling" about topics in Cuban music. I also sing in a salsa band. Lowkey obsessed. I also have an amazing little dog who I've trained to do a variety of tricks. Highkey obsessed.
Project Description	"Brine fly" larvae are adapted to extremely salty environments, such as those found in the San Francisco Bay Salt Flats found just south of Stanford. Specifically, there is a fly group known as Ephydra which are found in some of the saltiest waters in the world, such as Mono Lake, CA and the Great Salt Lake in Utah - they live in places almost three times as salty as the ocean! Brine flies have been described as having a "contagious" distribution, and they serve and have served as important food sources for local wildlife and indigenous people. I am seeking undergraduate researchers who can help characterize this fly genus. Some potential projects and questions the students could tackle include: 1) did these flies experience horizontal gene transfer to help them occupy salty environments? (bioinformatics) 2) are there fitness consequences (e.g. size, development time) associated with living in ponds of varying salinities? (fieldwork, morphometrics) 3) how are different brine fly species related to each other? (phylogenetics) 4) are there genetic differences between conspecific flies from different geographic regions? (population genetics)
Required Skills	Strong candidates will have an introductory understanding (and enthusiasm!) of genetics and evolutionary biology. Previous experience in a basic molecular biology lab (e.g. Biology Lab Course) and fundamental skills such as pipetting and sterile technique are preferred. All students studying brine flies are expected to spend ~1 day/week in the field (around the Bay Area, usually a drive <2 hours) assisting in specimen collections.
Duration	20 hours per week for 9 weeks (7/8/24 - 9/6/24) - \$3500 stipend for students
Modality/ Type of Work	Fully in-person, Mostly hands-on, in-lab experience

Project Catalog

- ▶ PDF of catalog - 2 parts
 - ▶ quick links table
 - ▶ full description
- ▶ Pay attention especially to
 - ▶ number of hours and stipend
 - ▶ modality
 - ▶ required skills

[Go to SLI internship website](#)

Common questions

- A class is strongly preferred for an internship and I'm in it this spring - will I be eligible?
 - Yes
- If a internship is in person, do I have to pay for parking and gas?
 - Yes, but if this is a hardship, reach out to us for some support

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Timeline

- ▶ **Deadline to apply - 11:59pm, Wed, May 1**
- ▶ Month of May - review committee reviews, then mentors review. Matches made by end of the month.
- ▶ If accepted
 - ▶ June
 - ▶ meet your mentor
 - ▶ sign up for ITRN class for summer
 - ▶ required orientation
 - ▶ July
 - ▶ 7/2/24 - required training
 - ▶ start internship week of 7/8
 - ▶ September
 - ▶ finish internship week of 9/2, including final presentation that week

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Miscellaneous Notes

- ▶ Stipend -
 - ▶ 2600 for 15 hours per week / 3500 for 20 hours per week
 - ▶ paid in a few different ways depending on your placement
- ▶ Where to get support on resume and essay
 - ▶ Some support from SLI
 - ▶ [Writing and Learning Center](#) - writing tutor on Tues and Thurs 4 - 7pm (right nav bar)
 - ▶ *NEW* - [SLI Resources Canvas page](#) - guidance on resume, essay, interview
 - ▶ seek support from your instructor, counselor

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Next Steps

- ▶ Work on your My Story Essay
- ▶ Review the Project Catalog - pick up to 5 projects you're interested in and write a short interest paragraph (for supplementary application)
- ▶ Work on your resume
- ▶ Ask someone to be a reference

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Wrap Up

- ▶ Send questions to sli.foothill@gmail.com. Answers will be added to FAQ document. May not have capacity to answer questions directly.
- ▶ Check on Project Catalog periodically - additional projects will be added.

Good luck!