

First-Gen/ Low-Income SLI STEM Internships Summer 2025: Information Session

March 2025





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

- ▶ THIS YEAR - for first-generation and/or low-income students
- ▶ 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

- ▶ First-generation and/or low-income (*first time for this to be required*)
- ▶ Classes at Foothill in spring
- ▶ Primarily Foothill (not De Anza) student
- ▶ Over 18 - by the time you start the internship
- ▶ Priority if you've never had an internship

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Commitment

- ▶ orientation in June + in-person training July 2
- ▶ July 7 - September 5
 - ▶ 6-7, 15, or 20 hours per week for 9 weeks
- ▶ Modality: in-person or hybrid (only a few totally remote)
- ▶ If transferring - need to complete your internship
- ▶ ITRN 50 course in summer
- ▶ biweekly (every other week) cohort session with other interns
- ▶ final slide presentation - Sept 4 and 5

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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 - NOT READY YET

- ▶ Academic Works scholarship application - 2 parts
 - ▶ General application → click submit
 - ▶ My Story Essay is the most important part
 - ▶ SLI STEM Internship application → supplementary questions → click submit
- ▶ Other items needed - as part of supplementary application
 - ▶ reference (not recommendation letter)
 - ▶ transcript
 - ▶ resume
 - ▶ interest paragraphs for up to 5 projects

Application - General Application

FOOTHILL-DE ANZA
Community College District

Application Progress

- General Application
- 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

Are you currently employed?

Yes
 No

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

Director ID:

Current living arrangement:

Other

Number of Dependents:

1

For purposes of this admissions 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. Where:

History Major

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

Which academic discipline does the major belong to?

Social Science/Humanities

Did you earn a diploma, certificate and/or degree from the school?

Yes
 No

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.

How many years did you attend the school?

4 years

What was the last term (month and year) you attended the school?

8/2009

Select an 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/Recreation
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.

Update Your Application

Lots of basic questions - should be easy to answer

Application - My Story Essay

4. 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" _italic_

sample here

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

Financial Aid Office website
Scholarship listserve
My advisor program, EGPS, ODS, Parents, Pass The Torch, etc.
Admission website

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

4. 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 Courses My Account (Profile and more)

Football 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), Florida 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 Farm Out, and other "best companies in the Bay Area. Please see the Project Catalog before you fill out the application.

Find out more at SLI's webpage: <https://football.slu.edu/slintermsipgrouppresentation>

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

- 15 hours per week for 8 weeks – \$2000
- 20 hours per week for 8 weeks – \$3000

Scholarship payments will occur in two installments and will depend on successful completion of 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:

(Please note you can attend for all three days, locations, 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 or take 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 1200s with Dr. Miron-Gandhi (essays on projected number of hours of internship); Course letter will be covered by the Science Learning Institute or your transferor, as is.
- A program orientation before the end of spring quarter and a training before the internship starts (10/24). 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 is 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.

Event

Open Enrollment to Internship Selected

Scope

Football College

Deadline

2/23/2024

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. Note: note to review the details of the internships you choose (location, hours, hours, shift schedules) 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 seeker at Florida College? (This means you have not completed any degrees at any other institutions).
10. Are you taking a class of credit or non-credit for spring quarter 2024? This is a requirement for this internship.
11. Please state 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. Are you a first-time student who has demonstrated financial need or hardship. Please explain any circumstances that help describe your need for financial support. (This field 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 a faculty or a reference.)
14. Please upload your most recent resume.
15. Please upload a copy of your current unofficial grade transcript from Florida College. You can download your unofficial transcript by going into your Student Registration app or your MyPlyMtl. Then My Reports - View Unofficial Transcript.
16. Please share any final explanations or comments for the scholarship committee to consider when reviewing your application.

Begin

This is what the opportunity looks like on Academic Works - then click “Begin” box

Application - Supplementary Application

Foothill College STEM Internship Scholarship Summer STEM Internships 2024

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

Deadline
03/10/2024

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 **Finalize and Submit**. Note: Required fields are marked with an asterisk.

Application 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?

Example Formatting: "0001" - "Title"

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: "0001" - "Title"

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 SU student, you cannot use Sophia as a reference.)

* Please upload your most recent resume.

* 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.

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

Save and Keep Editing **Finalize and Submit**

First 5 questions - up to 5 choices of projects along with an interest paragraph.
The rest of the supplementary application is straightforward.

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 - ▶ reference (not recommendation letter)
 - ▶ transcript
 - ▶ resume
 - ▶ interest paragraphs for up to 5 projects

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



SU FU STEM Internships Summer 2025: Project Catalog

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 up to 3 projects to apply to, but you don't need to select five if you're only interested in, for example, 2 or 3.

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 mobility 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 in you fill out the application. (S&D IN F&S, 2/2/2021)

If you have any questions, please reach out to the SU Director, Sophia Liu at slu@sufohills.edu and more at the website: <https://sufohills.edu/education/summer-internships/>

QUICK LINKS TABLE OF CONTENTS

BE SURE TO REVIEW THE FULL DESCRIPTION BEFORE THIS TABLE OF CONTENTS!
*Some projects are cross-disciplinary and may appear under multiple descriptions

BIOLOGY/ CHEMISTRY				
Project Title	Keywords	Required Skills	Modality	Availability
1. Structural biology of the metaphase chromosome	Chemistry, Physics, Molecular Biology	High-level computing skills, solid understanding of 3D visualization systems of units, chromosomes, moles, molecular weight, pH, pKa, Arrhenius on energy, color chromatography	Fully in-person, mostly hands-on, in-lab experience	20 hours per week, 9 weeks
2. Synthetic biology, systems biology, systems analysis	Chemistry, Engineering	General molecular biology or material science	Fully in-person, mostly hands-on, in-lab experience	20 hours per week, 9 weeks, in-lab experience
3. Synthetic biology of cell communication	Chemistry, Engineering, Physics	Self-study, you - no experience is necessary but an interest in the experimental scientific	Fully in-person, mostly hands-on, in-lab experience	20 hours per week, 9 weeks, in-lab experience
4. Sustainable and circular bioeconomy	Chemistry, Physics, Biology	Basic understanding of biology	Fully in-person, mostly hands-on, in-lab experience	20 hours per week, 9 weeks, in-lab experience

PROJECT FULL DESCRIPTIONS

You will find below all the projects that were listed above in the Quick Links Table of Contents. This provides more detail, so be sure to read through the projects you are interested in.

Discipline	Biology, Chemistry, Physics
Project Title	1: Structural biology of the metaphase chromosome
Mentor, Title	Andrew Beel, Instructor
Institution/ Affiliation	stanford: structural biology
Institution/ Company Website	https://beel.stanford.edu/
Company Description/ Mission	Chromosome structure and condensation (biochemistry, biophysics)
Mentor Bio	I completed an M.D. and a Ph.D. in Biophysics, the latter under Professor Roger Kornberg, at Stanford in 2022. I formed a lab thereafter with generous support from the NIH Early Independence Award. My lab divides its time between experimental biochemistry, structural biology (microscopy and crystallography), and tool development (primarily computational but also hardware to some extent). Given my training, I am able to advise on both research and medical paths.
Project Description	Our lab, based in the Department of Structural Biology at the Stanford University School of Medicine, studies the structure and formation of the metaphase chromosome (the iconic X-shaped form taken during cell division), by a combination of biochemical and structural methods (the latter including super-resolution light microscopy, electron microscopy, and X-ray crystallography). Our studies critically depend on the production of specialized enzymes by heterologous expression (taking the gene sequence from one organism and moving it into another organism like bacteria or yeast to see how it is expressed) followed by purification from cell lysates, which involves growing the bacteria or yeast and then breaking it open for further study. These enzymes are then applied in various biochemical and structural assays to better understand the structure and function of the chromosome. Students joining this project would learn basic skills in molecular biology and biochemistry, including cloning, DNA sequencing, recombinant protein expression, protein purification by liquid chromatography, and gel electrophoresis. This skill set is widely employed in the biotechnology and pharmaceutical industries.
Required Skills	Pipetting, preparing buffers, solid understanding of SI (International system of units) units/prefixes, moles, molecular weight, pH, pKa. A hands-on biology and/or chemistry lab class.
Duration	20 hours per week for 9 weeks (7/8/24 - 9/6/24) - \$3700 per student intern
Modality/ Type of Work	Fully in-person, Mostly hands-on, in-lab experience
Selection Process	Mentor will review 3 - 5 applications, arrange short interviews, and select top candidates
# of possible interns	One intern

Project Catalog

- ▶ PDF of catalog - 2 parts
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 - ▶ 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, Thurs, May 1 (week 4)**
- ▶ **Month of May**
 - ▶ Review committee reviews (beginning of May)
 - ▶ Then mentors review (mid to end of May)
 - ▶ Matches made by end of the month.

Timeline - possible interviews

	of units) units/pretixes, moles, molecular weight, pH, pKa. A hands-on biology and/or chemistry lab class.
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Modality/ Type of Work	Fully in-person, Mostly hands-on, in-lab experience
Selection Process	Mentor will review 3 - 5 applications, arrange short interviews, and select top candidates
# of possible interns	One intern

- ▶ For some projects - mentors will be looking to interview applicants
- ▶ You will have to make it through a first cut of acceptance - from Sophia.
- ▶ Then, you may get an email from the mentor directly for an interview.

Timeline

- ▶ If accepted
 - ▶ June
 - ▶ meet your mentor
 - ▶ sign up for ITRN class for summer
 - ▶ required orientation
 - ▶ July
 - ▶ 7/2/25 - required in-person training
 - ▶ start internship week of 7/7
 - ▶ September
 - ▶ finish internship week of 9/4, including final presentation that week

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Miscellaneous Notes

- ▶ Stipend -
 - ▶ 1200 for 6 - 7 hrs per wk // 2800 for 15 hrs per week / \$3700 for 20 hrs per week
 - ▶ paid in a few different ways depending on your placement
- ▶ Where to get support on resume and essay
 - ▶ [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

Miscellaneous Notes

▶ **Be on top of your emails!**

- ▶ from Sophia
 - ▶ confirmation
 - ▶ notification
- ▶ from mentor

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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**
- ▶ **Get help** - from an instructor, WLC - SLI will be setting up someone to help in the spring.

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Wrap Up

- ▶ Get help!
- ▶ Don't let imposter syndrome make you count yourself out!
- ▶ Work on the application NOW - don't wait until the day before the deadline.
- ▶ Check on Project Catalog periodically - additional projects will be added.

Good luck!