#### Thomas Jefferson National Accelerator Facility (Jefferson Lab)

Science Undergraduate Laboratory Internship (SULI) Program
Research Experience for Undergraduates (REU) Program
Mexican Physical Society (MPS) Program
Undergraduate Physics Research (UPR)

#### Tuesday, May 28, 2024, CEBAF Center Auditorium

7:45 a.m.	Refreshments, L102/207
8:00	Introductions – Lisa Surles-Law and Jalyn Dio
	Jefferson Lab Overview Video
	Introduction to participating undergraduate programs at Jefferson Lab  Objectives  Mentors and Research Projects  Scientific Journals  Mandatory Safety and Computer Training  Dress Code  Driving Regulations  Emergency Contact Information/Insurance Cards
8:45	Greetings - Stuart Henderson, Lab Director
9:00	Residence Facility Orientation - Melissa Hicks, RF Manager
9:15	Fostering a Positive and Respectful Workplace - Lisa Surles-Law & Tish Creery
10:15	Break
10:30	Computer Orientation and Security -Matthew Sconyers
11:15	Lunch (On Your Own)
12:15	SAF099 Safety Training – Steve Gagnon
2:15	SAF099 Testing
2:45	Badge ID Photos, Badging Office
	Microsoft Teams Walk-Through and Deliverable Overview, Jalyn Dio • Research Project Report – Oral and Written • Summer Calendar & Paperwork
5:00	Depart

#### Wednesday, May 29, 2024, CEBAF Center Lobby

10:00 a.m. Meet Your Mentors

## 2024 JLab Summer Undergraduate Program Syllabus

Students are required to attend all activities in RED All times are in Eastern Daylight Time (EDT)

			Week 1: 28-31 May	
Т	28 May	08:00 AM	Program Orientation, CC Auditorium	
W	29 May	10:00 AM	Meet with Mentors, CC Atrium	
R	30 May	11:00 AM	Introduction to Nuclear Physics, CC F324/5, Mark Jones, Ph.D. (Research)	
	03:00 PM Annual Jefferson Lab Run Around, Meet Outside CC (1 mile Run/Walk)			
F	31 May	12:00 PM	Brown Bag Lunch: Getting to Know You Social, SSC Classroom	
		03:30 PM	Using a Reference Manager: Zotero, Jalyn Dio, <u>Zoom</u>	
Т	04 June	11:00 AM	Week 2: 03-07 June Introduction to Appelorators CC F324 (F. Alexa Parasa Pl. D. Ch. 1)	
			Introduction to Accelerators, CC F324/5, Alex Bogacz, Ph.D. (Research)	
W	05 June	10:30 AM 12:00 PM	Mentor Project Show & Tell, SSC Classroom/Various Other Rooms	
		01:00 PM	REU Lunch with Balša and Geoff, CC F107 (Req. for REU, Opt. CCI/MPS/SULI)  Department of Energy Office of Science Overview and History, Zoom	
R	06 June	11:00 AM		
F	07 June	03:00 PM	Introduction to Detectors in Nuclear Physics, CC F324/5, Dave Mack	
Г	07 June 03:00 PM TWS #1: Project Articulation & Scientific Journals, SSC Classroom			
	Please consider attending/volunteering for the 2024 Jefferson Lab Open House on Saturday, June 8th!			
			Week 3: 10-14 June	
W	12 June	12:00 PM	Undergraduate Painting Lunch, SSC Classroom	
		01:00 PM	Imposter Syndrome, Zoom, Maureen Zappala	
R	13 June	11:00 AM	Nuclear Physics Detectors Applied to Medical and Biological Research	
			Applications, CCF324/5, <u>Drew Weisenberger, Ph.D.</u> ( <u>Research</u> )	
F	14 June	03:00 PM	TWS #2: Rainbow Abstract (General/Long Abstract), Zoom	
			Week 4: 17-21 June	
Т	18 June	11:00 AM	CEBAF Overview, CC F113, <u>Yves Roblin, Ph.D.</u> ( <u>Research</u> )	
	/	01:00 PM	Values-Based Professionalism, Zoom	
		03:00 PM	Roads to Success Panel, CC F113	
W	19 June		Juneteenth - Holiday Observed	
R	20 June	11:00 AM	Nuclear Physics in Proton Radiotherapy, CC F324/5, Thia Keppel, Ph.D. (Research)	
F	21 June	05:00 PM	AYCE Hot Pot and Korean BBQ, Hot Pot 757 & Korean BBQ (~\$30/person)	
_		44.00.157	Week 5: 24-28 June	
T	25 June	11:00 AM	Introduction to LQCD, Location TBA, Joe Karpie	
		12:30 PM	Ice Skating, Chilled Ponds at Yorktown Ice Sports Complex (\$15/person)	
W	26 June	01:00 PM	Mental Health, Zoom, Daniel Allen	

#### **Events with Dates TBD:**

27 June

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- Lunch with Stuart, Director of Jefferson Lab
- Talk with Mike Epps, Department of Energy Project Manager

Refer to Deliverable Due Dates for deadlines and methods of file submission.

	Building Abbreviations:
JLab Seminars, Department of Energy Seminars,	ARC – Applied Research Center, CC – CEBAF Center,
Holidays, "Mandatory Fun" Events	SSC – Support Services Center

11:00 AM SRF Science and Technology, Location TBA, Eric Lechner

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02:30 PM Student Intern Exit Interviews with Lisa, SSC Classroom	-	3=		

Required Events (TWS = Technical Writing Seminar)	Building Abbreviations:
JLab Seminars, Department of Energy Seminars,	ARC - Applied Research Center, CC - CEBAF Center,
Holidays, "Mandatory Fun" Events	SSC - Support Services Center

# Jefferson Lab Undergraduate Internship Programs Summer 2024 SULI Deliverable Due Date Guide - DRAFT

Week	Due	<b>Task</b>	Link
2	07 JUN	TWS 1: Project Articulation Form	TWS 1
	4:30 PM		Form
2	07 JUN	WDTS SULI Pre-Survey	SULI
	5:00 PM		WDTS
6	01 JUL	HS/Undergrad Project Share Optional Slide	SciEd
	5:00 PM	One slide max, supporting graphic for 1-2 min project elevator-pitch	D. Form
7	10 JUL	Draft of Long (Rainbow) Abstract	<u>SciEd</u>
	12:00 PM	Refer to Abstract Reference Documents for appropriate color coding	D. Form
		AND properly formatted header. Results not expected, but inferences	
		based on potential results are requested. Ex: If this happens then we	
RUE VARIOUS	45 1111	can conclude	
8	15 JUL	Rainbow Abstract Peer Review One Drive Comments	OneDrive
	12:00 PM	Comment on documents for each student in OneDrive group	
8	15 JUL	Rainbow Abstract Peer Review Feedback Form	Feedback
8	12:00 PM	Submit Peer Review Feedback Form for each student in OneDrive group	Form (A)
8	19 JUL 12:00 PM	Poster Draft for Poster Peer Review 2	SciEd
	12:00 PM	Submit Poster Draft that you plan on presenting during Poster Peer	D. Form
9	22 JUL	Review 2 (should include edits made after Poster Peer Review 1)  Poster Peer Review Feedback	P 11 1
9	12:00 PM	Submit Form for each student in Peer Review 2 Group	Feedback
10	30 JUL	Final Poster (HARD DEADLINE)	Form (P)
	12:00 PM	Submit by this time to ensure completion before poster session. YOU are	SciEd D. Form
	12.0011-1	responsible for picking up from TED Room 55-2525 after completion.	D. FOITH
10	01 AUG	Research Report Paper - (Cover Sheet w/ Mentor Signature)	SciEd
	11:59 PM	1500 to 3000-word research report paper in American Institutes of	D. Form
		Physics publication form. Word count not inclusive of footnotes,	211 01111
		appendices, or bibliography. Appendices must be three pages or less.	
10	02 AUG	General Audience (Long) Abstract	SciEd
	11:30 AM	Final "Rainbow" abstract WITHOUT any color coding	D. Form
10	02 AUG	Short Abstract	SciEd
	11:30 AM	150-word abstract summarizing poster's content and final content used	D. Form
		in presentation of poster	
10	02 AUG	WDTS Uploads	SULI
	11:30 AM	Final Poster w/ Short Abstract, Research Report, General Audience	WDTS
4.0	00 4710	Abstract, & Poster Peer Review Document (see email from Jalyn)	
10	02 AUG	WDTS Post Survey	SULI
10	11:30 AM	Cairl Fait Commun.	WDTS
10	02 AUG	SciEd Exit Survey	Feedback
	11:30 AM		Form (E)



#### Jefferson Lab's Summer Intern Dress Code

We have learned that student dress sets the tone for the learning environment. To clarify policy and to avoid questions, more specific descriptions of appropriate work attire are listed below.

#### The following dress practices are **NOT** allowed in Science Education Programs:

- 1. Pants worn below intended waistline, pants worn inside out, gym-type shorts, boxer pants, biker pants, bathing suit-type shorts, any type of cut-off shorts, cut-up pants.
- 2. Shirts or T-shirts over hose or stretch pants. Dresses, skirts, shorts, or tops covering stretch pants that do not reach at least midway to the thigh (fingertip length).
- 3. Bare feet or flip-flops. Shoes must be worn, keeping in mind safety concerns.
- 4. Shirts and blouses with objectionable slogans or obscenities.
- 5. Tank tops, shirts with spaghetti straps or shirts with uncovered sleeves less than 1-inch wide.
- 6. Sweat or yoga pants.

#### As a professional in the workplace,

- Hats are to be removed upon entering the buildings.
- Sunglasses are to be removed upon entering the buildings.

#### When working with machinery, follow all machine-specific instructions and be aware of:

- body piercing that will create safety hazard.
- loose clothing and loose lanyards.
- long hair. Tie back for safety.

Final decisions on the above dress practices are at the discretion of the Education Manager.



## Jefferson Lab's Undergraduate Summer Intern Program Agreement of Expectations

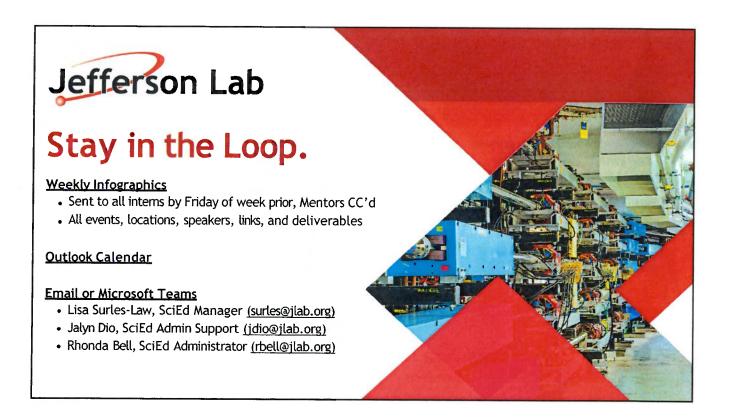
In order to fully participate in the 2024 Undergraduate Summer Intern Programs of the Science Education Department at Thomas Jefferson National Accelerator Facility, the following expectations must be met:

- Complete the program beginning Tuesday, May 28, 2024, and concluding Friday, August 2, 2024.
- Work the daily schedule that is outlined during orientation. If, for some reason, you are unable to participate on a particular day, advanced notice to the Science Education Coordinator and Mentor is required via email.
- Be accessible to mentors during the agreed upon work schedule.
- Be accessible to collaborate with team members during agreed-upon hours.
- Complete all safety training mandated by Jefferson Lab staff.
- Participate in the Abstract Peer Review Session to be held on July 12, 2024.
- Participate in Poster Peer Review Sessions on July 16, 2024, and July 19, 2024.
- Submit the signed research paper to Mentor and to the Science Education program coordinator by Thursday, August 1, 2024.
- Participate in the Poster Presentation Sessions to be held on Friday, August 2, 2024.
- Adhere to the dress code and videoconference etiquette described during orientation for videoconference attendance. Refer to the *Jefferson Lab's Summer Intern Dress Code* document.
- Attend all mandatory Technical Writing Seminars for papers and posters. [Dates: 07, 14, 29 June AND 05 July). If extenuating circumstances arise, contact Lisa Surles-Law or Jalyn Dio before your absence.
- Attend all required events and guest speaking engagements, rf. to the 2024 Undergraduate Syllabus document. If extenuating circumstances arise, contact Lisa Surles-Law or Jalyn Dio before your absence.
- If residing at or visiting the Residence Facility, adhere to all Residence Facility policies and procedures.
- Adhere to the Fostering a Positive and Respectful Workplace Guidelines.

I have read the "Jefferson Lab's Undergraduate Summer Intern Program Agreement of Expectations" (revised 05/10/2024) and understand my responsibilities and involvement in the Program. Failure to comply with all of the above expectations will result in the loss of my position in the Jefferson Lab Summer Undergraduate Internship Programs. I also understand that I am responsible for the payment of any taxes due from my stipend checks to the IRS.

Student Name (Printed)	Signature	Date
Mentor Name (Printed)	Signature	Date

#### **Timeline** Week 1 Week 2 Week 3-8 This may be your student's Provide guidance while establishing Set SMART Goals per week first job... structure and routines o Specific, Measurable, Provide project-related Establish a regular pattern of Attainable, Realistic, Timely background materials communication, adjusting if · Encourage your intern to use all Review expectations on necessary tools provided working time/availability Provide Feedback! It is essential Community Building/Engagement Work Senstivity for growth. Week 9-10 Exit Ensure that deliverables are · Provide contact information to reviewed in some way prior to remain in touch with student after submission. departure, if desired Annual Public Poster Session Ensure that you both complete o Friday, August 2nd the respective Mentor and Intern o CEBAF Atrium Exit Surveys to provide feedback □ 11:45 AM - 1:15 PM for next year's programs



#### **Provided Undergraduate Orientation Materials** Summer 2024 Deliverable Undergraduate Syllabus **Due Date Guide** Roster Contains a schedule of events Contains all expected student Lists all students in (required and optional) for the deliverables throughout the undergraduate internship entire ten-week period. term, including a brief programs, academic description, due date, and backgrounds, and mentor Sensitive to change submission process. assignments. throughout summer Community Agreement of SciEd Summer Intern Standards **Expectations Dress Code** Specifies acceptable, Lab-wide policy of Science Education Expectations appropriate dress for all appropriate conduct for all specifying the terms of the summer interns (high school employees, users, students, internship and intern and undergraduate) guests, visitors, and requirements to remain in good Enforced by mentors subcontractors standing. and SciEd

## **Mentor Project Show and Tell**

Wednesday, June 5, 2024 at 10:30 AM in SSC

### Meeting first in SSC Classroom to discuss format and room assignments

- Groups of ~ 10 students grouped by mentor/department
- Mentors take turns sharing about their students' projects
  - About 2-3 mins, 0-2 slides per presentation (please bring slides on flash drive)
- Various rooms reserved in SSC with PowerPoint capabilities in each