

## Science Undergraduate Laboratory Internships (SULI)

Summer 2022 - Application for: Nadifa Abdi

### APPLICANT PROFILE

#### General Applicant Information

First Name: Nadifa

Middle Name:

Last Name: Abdi

Previous Last Name(s):

Primary Email Address: nadifa.firin@icloud.com

Alternate Email Address 1: nadifa2000@gmail.com

Alternate Email Address 2:

ORCID: [0000-0001-6872-6682](https://orcid.org/0000-0001-6872-6682)

#### Current Address

Primary Phone Number: 617-230-2316

Alternate Phone Number:

#### Citizenship/Languages/Eligibility Information

I will be 18 years of age or older by the time the internship begins: Yes

Are you a U.S. Citizen? Yes

## Science Undergraduate Laboratory Internships (SULI)

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### EDUCATIONAL BACKGROUND

#### Academic Information

Are you currently attending a community college or 2-year college?

No

Current academic status:

Junior

If you are selected as a participant in this DOE program, will you receive academic credit from your university/college for participating?

No

## Science Undergraduate Laboratory Internships (SULI)

Summer 2022 - Application for: Nadifa Abdi

### Undergraduate Institution Information

College/University Country:	United States and U.S. Territories
College/University State/Province/Territory:	Massachusetts
College/University Name:	Boston University
College/University Address:	Boston, MA 02215, USA
College/University City:	Boston
College/University Zip Code:	02215-1700
Expected/Declared Major:	Biological Sciences - Biological Biochemistry - Biochemistry and Molecular Biology
Minor and/or Concentration Expected/Declared:	Health Services - Public Health
Expected Degree From This College/University:	Bachelor's
Expected/Completed Graduation Date:	May / 2023
Transcript:	Nadifa Abdi BU Transcript.pdf
Does this institution provide grades?	Yes
GPA Scale:	4.0
Total Attempted Credits:	16.00
Total Earned Credits:	16.00
Total Quality Points:	49.20
GPA:	3.08

  

College/University Country:	United States and U.S. Territories
College/University State/Province/Territory:	Massachusetts
College/University Name:	Bunker Hill Community College
College/University Address:	250 Rutherford Ave, Boston, MA 02129, United States
College/University City:	Boston
College/University Zip Code:	02129-2925
Expected/Declared Major:	Biological Sciences - Biological Biochemistry - Molecular Biology and Biotechnology
Expected Degree From This College/University:	2-year associate
Expected/Completed Graduation Date:	May / 2021
Transcript:	Nadifa Abdi Bunker Hill Transcript.pdf
Does this institution provide grades?	Yes
GPA Scale:	4.0
Total Attempted Credits:	68.00
Total Earned Credits:	68.00
Total Quality Points:	247.40
GPA:	3.64

## Science Undergraduate Laboratory Internships (SULI)

Summer 2022 - Application for: Nadifa Abdi

Overall Cumulative GPA:	3.53
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## Science Undergraduate Laboratory Internships (SULI)

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### Science, Technology, Engineering and Mathematics (STEM) Courses

**Course Title:** Advanced Lab Techniques of Biotechnology

**Course Number:** BIO 261

**Enrollment Status:** Recently Completed

**Course Title:** Calculus 1

**Course Number:** MAT 281

**Enrollment Status:** Recently Completed

**Course Title:** Cell Biology

**Course Number:** BIO 207

**Enrollment Status:** Recently Completed

**Course Title:** Developmental Biology

**Course Number:** BI 410

**Enrollment Status:** Recently Completed

**Course Title:** Environmental Change and Sustainability

**Course Number:** EE 100

**Enrollment Status:** Recently Completed

**Course Title:** General Biology 1

**Course Number:** BIO 195

**Enrollment Status:** Recently Completed

**Course Title:** General Biology 2

**Course Number:** BIO 196

**Enrollment Status:** Recently Completed

**Course Title:** General Chemistry 1

**Course Number:** CHM 201

**Enrollment Status:** Recently Completed

**Course Title:** General Chemistry 2

**Course Number:** CHM 202

**Enrollment Status:** Recently Completed

**Course Title:** General Microbiology

**Course Number:** BI 311

## Science Undergraduate Laboratory Internships (SULI)

Summer 2022 - Application for: Nadifa Abdi

<b>Enrollment Status:</b>	Recently Completed
<b>Course Title:</b>	General Physics 1
<b>Course Number:</b>	PHY 201
<b>Enrollment Status:</b>	Recently Completed
<b>Course Title:</b>	General Physics 2
<b>Course Number:</b>	PHY 202
<b>Enrollment Status:</b>	Recently Completed
<b>Course Title:</b>	Genetics
<b>Course Number:</b>	BIO 208
<b>Enrollment Status:</b>	Recently Completed
<b>Course Title:</b>	Honors Environmental Science
<b>Course Number:</b>	ENV 105
<b>Enrollment Status:</b>	Recently Completed
<b>Course Title:</b>	Intense Organic Chemistry 2
<b>Course Number:</b>	CH 214
<b>Enrollment Status:</b>	Currently Enrolled
<b>Course Title:</b>	Introduction to Biotechnology
<b>Course Number:</b>	BIO 120
<b>Enrollment Status:</b>	Recently Completed
<b>Course Title:</b>	Introduction to Public Health
<b>Course Number:</b>	PH 510
<b>Enrollment Status:</b>	Currently Enrolled
<b>Course Title:</b>	Organic Chemistry 1
<b>Course Number:</b>	CH 203
<b>Enrollment Status:</b>	Recently Completed
<b>Course Title:</b>	Principles of Molecular Biotechnology
<b>Course Number:</b>	BIO 262
<b>Enrollment Status:</b>	Recently Completed
<b>Course Title:</b>	Quantitative Analysis

## Science Undergraduate Laboratory Internships (SULI)

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Course Number:	CH 201
Enrollment Status:	Currently Enrolled
Course Title:	Statistics 1
Course Number:	MA 115
Enrollment Status:	Currently Enrolled
High School Graduation or GED	
Date of High School Graduation or GED:	May / 2019
Country:	Tanzania
City:	Upanga
State/Province/Territory:	Dar Es Salaam

## Science Undergraduate Laboratory Internships (SULI)

Summer 2022 - Application for: Nadifa Abdi

### WORK EXPERIENCE & SKILLS

#### Work Experience

<b>Name of Place of Employment or Activity:</b>	Merck Exploratory Science Center
<b>Dates of Employment or Activity:</b>	From 5/24/2021 To 8/14/2021
<b>Hours Per Week:</b>	40.0
<b>Primary Duties:</b>	Performed Data Analysis on the clinical study I was assigned to.
<b>Tasks Performed:</b>	Proficiently worked with Mass Spectrometry graph analysis • Attended seminars and one-on-ones with scientists and leading professionals in their respective fields • Hosted the farewell session for fellow interns and mentors
<b>Name of Place of Employment or Activity:</b>	TJMaxx
<b>Dates of Employment or Activity:</b>	From 8/1/2020 To 6/11/2021
<b>Hours Per Week:</b>	20.0
<b>Primary Duties:</b>	Ringling out customers, ensuring the products they require are provided for them etc.
<b>Tasks Performed:</b>	As a Front End Associate, it is my responsibility to ensure that customers are being checked out of the shopping lines as quickly as possible to ensure that they are not waiting too long. I am remarkably well at ringing up our customers quickly while also engaging with them in a friendly manner so that not only do they feel welcome at our store, but they do not have to wait too long for me to put all of their items together efficiently. I always encourage them to come visit our stores again, with a smile on my face.
<b>Name of Place of Employment or Activity:</b>	Bunker Hill Community College
<b>Dates of Employment or Activity:</b>	From 9/26/2019 To 12/10/2021
<b>Hours Per Week:</b>	18.5
<b>Primary Duties:</b>	Guiding students to their requested service areas, ensured that students were provided with all of the necessary information they required, etc.
<b>Tasks Performed:</b>	As a Student Central work study student, it is my responsibility to ensure that every student that requires help either with their financial situations or academic questions are met with excellent customer service. The students will leave Student Central extremely satisfied and ready for their semester because not only did we help them with their situations, but we ensure that they know we are here for them.
<b>Professional Associations</b>	
<b>Are you a member of any professional organizations?</b>	No
<b>Computer Skills</b>	
<b>Computer related skills:</b>	Proficient in the use of Microsoft Office and know my way around a computer.



## Science Undergraduate Laboratory Internships (SULI)

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### Laboratory/Technical Skills

Experience with advanced laboratory techniques or equipment:

- Cell culture
- Protein Purification
- Bradford Assay
- SDS Page
- Extraction and Recrystallization
- Gel electrophoresis.
- Microbial culturing and plating.

## Science Undergraduate Laboratory Internships (SULI)

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### PROGRAM INFORMATION

#### Eligibility

Have you previously participated in 2  
SULI appointments? No

#### Previous DOE Internship/Fellowship Experience

Have you ever had an  
internship/fellowship with the  
Department of Energy or any of its  
National Laboratories? No

#### Availability

What is the earliest date you can  
begin your internship? 5/30/2022

When do you need to complete your  
internship? 8/26/2022

#### First Choice Host DOE Laboratory

**DOE Laboratory:** Lawrence Berkeley National Laboratory (LBNL)

**First Choice Research Area:** Biochemistry

**Second Choice Research Area:** Nanotechnology

**Third Choice Research Area:** Molecular Biology

#### Second Choice Host DOE Laboratory

**DOE Laboratory:** Thomas Jefferson National Accelerator Facility (TJNAF)

**First Choice Research Area:** Physical Chemistry

**Second Choice Research Area:** Materials Sciences

**Third Choice Research Area:** Engineering Chemical

#### Relatives Employed at DOE Laboratories

Are you a relative of an employee at  
the proposed host DOE laboratories? No

## Science Undergraduate Laboratory Internships (SULI)

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### ESSAYS

<b>Research Experience:</b>	My experience includes laboratory classes where we have worked with microbial culturing and plating, a summer internship with Merck Exploratory Science Center where I have worked on data analysis as well as the study I was enrolled in. I also have an Associate's degree worth of laboratory experience.
<b>Research Interests:</b>	<p>First choice laboratory:</p> <p>My degree is focused on Biochemistry and Molecular Biology with a minor in Public Health. Therefore with my first choice laboratory, I am very excited to see and participate in research focused on biochemistry. While my knowledge of nanotechnology is very limited, I am quite eager and excited to learn more about this exciting and newly emerging field.</p> <p>Second choice laboratory:</p> <p>I chose this second lab because firstly, it appears to be the more heavy aspect of chemistry while also focusing on physics. Material sciences is very new to me but I am quite excited to learn more about this field.</p>
<b>Personal Experience:</b>	My experience includes laboratory classes where we have worked with microbial culturing and plating, a summer internship with Merck Exploratory Science Center where I have worked on data analysis as well as the study I was enrolled in. I also have an Associate's degree worth of laboratory experience. I also am very dedicated and focused to what I put my mind to and I believe this makes me an excellent candidate for this internship program.
<b>Professional Goals:</b>	This opportunity would greatly help shape what I hope to achieve in life. I have always had a passion for science as long as I can remember. This year, I declared Public Health as my minor because with that passion, I want to help people and I believe science is how I know to do that best. For my educational goals, I want to attain my Bachelor's degree in Biochemistry and Molecular Biology and then advance on to my further education. For my professional goals, I want to work in research and help advance the growth of human kind sustainably.

### RECOMMENDATIONS

<b>Recommendation 1:</b>	<p><b>First Name:</b> Lamiya</p> <p><b>Last Name:</b> Rangwala</p> <p><b>Email:</b> lalibhai75@gmail.com</p> <p><b>Status:</b> Received 1/12/2022</p>
<b>Recommendation 2:</b>	<p><b>First Name:</b> Tom</p> <p><b>Last Name:</b> Wyche</p> <p><b>Email:</b> thomas.wyche@merck.com</p> <p><b>Status:</b> Received 1/2/2022</p>

Send To: Nadifa A. Abdi  
1815 Washington St  
Boston MA 02118

ID.: 0406132  
SSN.: XXX XX 2011  
NAME: Nadifa A. Abdi

Course	Course Title	Grd	Att Cred	Cmpl Cred	QP	Remarks	Course	Course Title	Grd	Att Cred	Cmpl Cred	QP	Remarks
FALL SEMESTER 2019 (09/03/2019 to 12/21/2019)							FALL SEMESTER 2020 (09/08/2020 to 12/21/2020)						
MAT281	CALCULUS I	B-	4.00	4.00	10.80	MTMATH							
BIO195	GEN BIOLOGY I/LAB	B-	4.00	4.00	10.80	MTSCI	BIO208	GENETICS AND LAB	B+	4.00	4.00	13.20	
ENG111	COLLEGE WRITING I	A-	3.00	3.00	11.10	MTENGL	BIO261	ADV LAB TECHNIQUES IN BIOTECH	B-	3.00	3.00	8.10	
CHM201	GEN CHEMISTRY I/LAB	A	4.00	4.00	16.00	MTSCI	BIO262	PRIN OF MOLECULAR BIOTECH	B+	3.00	3.00	9.90	
Term GPA: 3.25		Credit:	15.00	15.00	48.70		GOV220	INTRO- INT'L RELATION - HONORS	A	3.00	3.00	12.00	MTSOSC
Dean's List							ENV105	ENV SCIENCE/LAB - HONORS	A	4.00	4.00	16.00	
							Term GPA: 3.48		Credit:	17.00	17.00	59.20	
SPRING SEMESTER 2020 (01/21/2020 to 05/15/2020)							Dean's List						
ENG112	COLLEGE WRITING II	A-	3.00	3.00	11.10	MTENGL							
BIO196	GEN BIOLOGY II/LAB	A	4.00	4.00	16.00		SPRING SEMESTER 2021 (01/25/2021 to 05/18/2021)						
BIO207	CELL BIOLOGY/LAB	A	4.00	4.00	16.00		CHM202	GEN CHEMISTRY II/LAB	A	4.00	4.00	16.00	
BIO120	INTRO TO BIOTECHNOLOGY	A-	4.00	4.00	14.80		PHY202	GEN PHYSICS II/LAB	A-	4.00	4.00	14.80	
Term GPA: 3.86		Credit:	15.00	15.00	57.90		HON200	HONORS SEMINAR	A	3.00	3.00	12.00	MTHUM
							LIT233	GENDER AND LITERATURE-HONORS	A	3.00	3.00	12.00	MTHUM
SUMMER SESSION I 2020 (06/01/2020 to 07/12/2020)							Term GPA: 3.91		Credit:	14.00	14.00	54.80	
PSY101	PRIN OF PSYCHOLOGY	A	3.00	3.00	12.00	MTSOSC	Dean's List						
PHY201	GEN PHYSICS I/LAB	A-	4.00	4.00	14.80								
Term GPA: 3.83		Credit:	7.00	7.00	26.80								

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Send To: Nadifa A. Abdi  
1815 Washington St  
Boston MA 02118

ID.: 0406133  
SSN.: XXX-XX-2011  
NAME: Nadifa A Abdi

Course	Course Title	Grd	Att Cred	Cmpl Cred	QP	Remarks	Course	Course Title	Grd	Att Cred	Cmpl Cred	QP	Remarks
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			Att	Cmpl	GPA
GPA	Credit	Cred	Cred	Cmpl	Cr QP

Cum GPA.....: 3.64      Credit: 68.00 68.00 68.00 247.40  
Cum GPA (Less Dev): 3.64      Credit: 68.00 68.00 68.00 247.40

Degree Received: Associate in Science on 05/27/2021  
Majors.....: Biotechnology  
Honors.....: High Honors - 3.50 - 3.89

End of official record.  
Date Printed: August 27 2021

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## Boston University Transcript Preview

[Contact](#)

 view: [with Name and ID](#) | **without Name and ID**

This is a preview of your Boston University transcript only.

A preview is not available for Wheelock College (1888 – May 2018) transcripts.

Boston University and Wheelock College (1888 – May 2018) transcripts may be requested by selecting the Order Transcript button.

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### DEGREE AWARDED

None

### BASIS OF ADMISSION

Bunker Hill Community College  
Boston, MA

### PROGRAM OF STUDY

CAS, B.A., Biochemistry and Molecular Biology

COURSE CODE	COURSE TITLE	CREDIT	GRADE	HONOR POINTS	SEM-GPI CUM-GPA
<b>FALL 2021</b>					
ADMITTED to College of Arts and Sciences					
Bachelor of Arts					
CAS BI311	GEN MICROBIOLOG	4.0	<b>B+</b>	13.2	
CAS BI410	DEVELOP BIOL	4.0	<b>B-</b>	10.8	
CAS CH203	ORGANIC CHEM 1	4.0	<b>C+</b>	9.2	
CAS EE100	ENV CHG&STNBLTY	4.0	<b>A</b>	16.0	
HUB FY101	FIRST YR EXP CC	0.0	<b>P</b>	0.0	3.08
					3.08
<b>SPRING 2022</b>					
CAS CH201	QUANT ANALYSIS	2.0		0.0	
CAS CH214	ORG CHEM/EQUAL	4.0		0.0	
CAS CL213	GREEK&ROM MYTH	4.0		0.0	
CAS MA115	STATISTICS 1	4.0		0.0	
SPH PH510	INTRO PUB HLTH	4.0		0.0	

Cumulative Credits Earned : 16.0

Cumulative Grade Point Average : 3.08

### TRANSFER CREDITS ACCEPTED TOWARD GRADUATION

SEMESTER	COURSE	CREDITS
Bunker Hill Community College		
FALL 2019	CALCULUS I	4.00
FALL 2019	COLLEGE WRITING I	3.00
FALL 2019	GEN BIOLOGY I/LAB	4.00

FALL 2019	GEN CHEMISTRY I/LAB	4.00
SPRG 2020	CELL BIOLOGY/LAB	4.00
SPRG 2020	COLLEGE WRITING II	3.00
SPRG 2020	GEN BIOLOGY II/LAB	4.00
SPRG 2020	INTRO BIOTECHNOLOGY	4.00
SUMR 2020	GEN PHYSICS I/LAB	4.00
SUMR 2020	PRIN OF PSYCHOLOGY	3.00
FALL 2020	ADV LAB TECH.-BIOTCH	3.00
FALL 2020	ENV SCIENCE/LAB-HNRS	4.00
FALL 2020	GENETICS & LAB	4.00
FALL 2020	INTRO-INT'L RELATION	3.00
FALL 2020	PRIN MOLECULAR BIOTC	3.00
SPRG 2021	GEN CHEMISTRY II/LAB	4.00
SPRG 2021	GEN PHYSICS II/LAB	4.00
SPRG 2021	HONORS SEMINAR	3.00

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### EVALUATION OF EXTERNAL CREDIT

College of Arts and Sciences (CAS)

FALL 2021                      Admitted with 65.00 credits towards graduation requirements.

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**End of Transcript**

[Contact](#)

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# SULI PROGRAM APPLICATION RECOMMENDATION FOR NADIFA ABDI

## Recommender Contact Information

- **First Name:** Thomas
- **Last Name:** Wyche
- **Title:** Associate Principal Scientist
- **Department:** Exploratory Science Center
- **Institution/Organization:** Merck & Co.
- **Telephone:** 262-308-7418
- **Email:** thomas.wyche@merck.com

## Applicant Information

### Association

Describe your relationship to the applicant, including how long you've known the applicant, where, and in what capacity.

I was Nadifa's mentor/manager at Merck & Co. (Exploratory Science Center, Cambridge, MA) during the summer of 2021 (3 months). Nadifa was a summer intern during this time. I oversaw her research project and development during the internship. I first met Nadifa in 2020 when I participated in a mentorship program between Merck & Co. and Bunker Hill Community College, where she was a student at the time. Although I was not Nadifa's mentor for this program, I attended her final presentation for the class and was immediately impressed. Her presentation stood out from the rest of the class and demonstrated her passion and clear communication of the scientific topic. Thus, when she applied for and interviewed for the summer internship position in 2021, it was an easy decision to hire her.

### Applicant Comments

Please provide substantive comments about the applicant's education, training, aptitude, or promise relevant to the SULI program. Include any relevant additional detail or perspective regarding the applicant's research experience or equivalent experience on complex projects, including the level of independence or other factors that would contribute to the applicant's ability to make an excellent contribution to the SULI program.

During Nadifa's time working at Merck, she was responsible for analyzing liquid chromatography/mass spectrometry (LC/MS) data as part of a clinical study. Nadifa analyzed and interpreted the metabolomics data and was integrated into the project team – attending and contributing to project team meetings and working with other scientists in the group. This was a very complex project with multiple data layers, and Nadifa did an excellent job of analyzing and interpreting the data. While work is still ongoing with this study, the results will be published in the future and will include Nadifa as an author for her contributions. At the end of her internship, Nadifa presented a PowerPoint summary of her project to the entire group of mentors and interns, and she also presented a virtual poster at a poster session open to the entire Merck Boston/Cambridge site.

During Nadifa's time working at Merck, I witnessed her passion for learning, perseverance to overcome challenges, and ability to work well with others. Nadifa clearly spent a lot of time to make sure she understood the science and the various aspects of her project and asked me important questions to better her understanding. She also often asked questions and contributed to discussions in seminars and larger group meetings, which is very rare for a summer intern and demonstrated her outgoing nature. Among the challenges she faced was working remotely, which was necessary due to the COVID-19 pandemic. In this virtual environment, she demonstrated a high level of independence but also understood appropriate times to ask questions and collaborate with others. Despite this challenge, she actively sought out opportunities to network with Merck scientists and demonstrated leadership with the group of interns in the program. During this internship experience, I also witnessed Nadifa's great communication skills – in 1:1 and group meetings, by email, and during her

presentations. I thoroughly enjoyed having the opportunity to work with and mentor Nadifa during this internship.

Based on Nadifa’s skills and passion for learning, among other important qualities, I feel the SULI program would be a great fit. She would make important contributions to the team and also grow her knowledge and experience with this opportunity. I know that Nadifa has a bright future ahead of her.

Applicant Rating

In comparison to other undergraduate students, please rate the applicant relative to his/her peers on the following qualifications:

	Do Not Know	Below Average	Average	Above Average	Superior
Analytical and Mathematical				X	
Experimental Research				X	
Overall Academic				X	
Initiative and Self Reliance				X	
Motivation toward Scientific Career					X
Originality of Thought					X
Emotional Maturity					X
Ability to Work with Others					X
Potential for Leadership					X
Oral Communication Skills					X
Written Communication Skills					X

# SULI PROGRAM APPLICATION RECOMMENDATION FOR NADIFA ABDI

## Recommender Contact Information

- **First Name:** Lamiya
- **Last Name:** Rangwala
- **Title:** none
- **Department:** none
- **Institution/Organization:** Hubert Kairuki Memorial University
- **Telephone:**
- **Email:** lalibhai75@gmail.com

## Applicant Information

### Association

Describe your relationship to the applicant, including how long you've known the applicant, where, and in what capacity.

Nadifa and I were both fellow volunteers for the RoboTech company in Tanzania which was a startup company that wanted to bring the concepts of Robotics to underserved communities. We both were volunteers at the company from October 2017 to June 2019. Alongside other volunteers, we helped bring the first ever Technology Festival to life in Tanzania.

### Applicant Comments

Please provide substantive comments about the applicant's education, training, aptitude, or promise relevant to the SULI program. Include any relevant additional detail or perspective regarding the applicant's research experience or equivalent experience on complex projects, including the level of independence or other factors that would contribute to the applicant's ability to make an excellent contribution to the SULI program.

A demanding STEM summer internship requires self-discipline, a thirst for knowledge and a strong sense of direction. Nadifa is an extremely motivated person who has a clear idea of what she wants to accomplish professionally and has the capacity of adapting herself to new and challenging environments. I am certain that Nadifa will be an excellent asset to the SULI internship program. She has completed multiple laboratory courses at her institution and has even interned at Merck Exploratory Science Center where she worked with brilliant researchers in their respective fields.

## Applicant Rating

In comparison to other undergraduate students, please rate the applicant relative to his/her peers on the following qualifications:

	Do Not Know	Below Average	Average	Above Average	Superior
Analytical and Mathematical			X		
Experimental Research					X
Overall Academic				X	
Initiative and Self Reliance					X
Motivation toward Scientific Career					X
Originality of Thought				X	
Emotional Maturity			X		
Ability to Work with Others					X
Potential for Leadership					X
Oral Communication Skills				X	
Written Communication Skills				X	