

Science Undergraduate Laboratory Internships (SULI)

Summer 2022 - Application for: Lauren Ann Bueter

APPLICANT PROFILE

General Applicant Information

First Name: Lauren

Middle Name: Ann

Last Name: Bueter

Previous Last Name(s):

Primary Email Address: laurenbueter@cox.net

Alternate Email Address 1: lbuet001@odu.edu

Alternate Email Address 2:

ORCID: [0000-0003-0663-2407](https://orcid.org/0000-0003-0663-2407)

Current Address

Primary Phone Number: 757-892-0105

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

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EDUCATIONAL BACKGROUND

Academic Information

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

No

Current academic status:

Freshman

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

No

Undergraduate Institution Information

College/University Country: United States and U.S. Territories

College/University State/Province/Territory:

Virginia

College/University Name: Old Dominion University

College/University Address: 5115 Hampton Blvd

College/University City: Norfolk

College/University Zip Code: 23529-1000

Expected/Declared Major: Engineering - Mechanical

Expected Degree From This College/University:

Bachelor's

Expected/Completed Graduation Date:

May / 2025

Transcript: eTranscript_1.1.2022.pdf

Does this institution provide grades? Yes

GPA Scale: 4.0

Total Attempted Credits: 66.00

Total Earned Credits: 16.00

Total Quality Points: 61.00

GPA: 3.81

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Science, Technology, Engineering and Mathematics (STEM) Courses

Course Title: Calculus I

Course Number: MATH 211

Enrollment Status: Recently Completed

Course Title: Calculus II

Course Number: MATH 212

Enrollment Status: Recently Completed

Course Title: Calculus III

Course Number: MATH 312

Enrollment Status: Recently Completed

Course Title: Computer Programming for Engineering Problem Solving

Course Number: ENGN 150

Enrollment Status: Currently Enrolled

Course Title: Engineering Graphics for Mechanical Engineering Design

Course Number: MET 230

Enrollment Status: Currently Enrolled

Course Title: Explore Engineering and Technology

Course Number: ENGN 110

Enrollment Status: Recently Completed

Course Title: Foundations of Chemistry I

Course Number: CHEM 121N

Enrollment Status: Recently Completed

Course Title: Foundations of Chemistry I Lab

Course Number: CHEM 122

Enrollment Status: Recently Completed

Course Title: Information Literacy and Research

Course Number: MAE 111

Enrollment Status: Currently Enrolled

Course Title: Modern Physics

Course Number: PHYS 323

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Enrollment Status:	Recently Completed
Course Title:	Ordinary Differential Equations
Course Number:	MATH 307
Enrollment Status:	Recently Completed
Course Title:	Statics
Course Number:	MAE 204
Enrollment Status:	Currently Enrolled
Course Title:	University Physics I
Course Number:	PHYS 231N
Enrollment Status:	Recently Completed
Course Title:	University Physics II
Course Number:	PHYS 232N
Enrollment Status:	Recently Completed
High School Graduation or GED	
Date of High School Graduation or GED:	June / 2021
Country:	United States
City:	Newport News
State/Province/Territory:	VA

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WORK EXPERIENCE & SKILLS

Work Experience

Name of Place of Employment or Activity:	Starving Artist Studio
Dates of Employment or Activity:	From 4/9/2018 To Present
Hours Per Week:	10.0
Primary Duties:	The primary duties of this particular job vary depending on the time of year that I work. During the summer, which is when I work most of the time, I was the director of the art camps. In this position, I work with the owner of the studio to make weekly camp plans as well as teach lessons daily to a different group of children each week. Outside of the summer months, I work as a studio associate. In this position, I work with other studio associates, the manager, and even the owner in the daily running of the art studio. I work with customers to teach them different styles of art as well as show new coworkers how to do regular maintenance on the studio and how to complete unique art techniques or projects.
Tasks Performed:	<p>Camp tasks include:</p> <ul style="list-style-type: none"> -Planning camp activities with the assistance of the owner. This is done because each week the camp has a new group of campers, some of whom have attended the camp before, I plan to have a unique set of activities each week for campers. I change my plans as needed once the camp week has begun. -Running Camp <p>Another large task as camp director of the art studio is leading camp efforts. Once the plan is made I personally prepare for and teach the campers their projects.</p> <p>Studio Tasks include:</p> <ul style="list-style-type: none"> -Opening the studio Getting ready for the day and checking the calendar to prepare for any preplanned events for the day. -Closing the studio Reporting daily sales to the owner as well as cleaning anything left out from customers throughout the day. -Maintaining studio tools and machines As the day progresses making sure that dishes are washed along with brushes and other tools that have been used so that mess does not accumulate as the day progresses. -Unloading the Kiln Safely taking art projects from the kiln, checking for any blemishes that may make the work unsafe as well as using the Dremel tool to grind down stilt marks. -Taking care of customers Make sure that customers understand how the studio works and are fully satisfied with their finished projects once they are done.

Professional Associations

Are you a member of any professional organizations?	Yes
Professional associations you are affiliated with:	American Society of Mechanical Engineers, Society of Women Engineers

Computer Skills

Computer related skills:	<p>Currently, I have minimal experience with the C++ language. Currently, I am taking a computer programming course that will allow me to understand coding in C++ as well as have the general knowledge to complete any task needed in just about any programming language. At the conclusion of the course, I will also be proficient in Matlab software.</p> <p>I am also proficient in Excel sheets as well as Inventor. My recent engineering class had a focus on learning how to use excel for data. I am familiar with Inventor through this course as well, this upcoming semester I will be taking an engineering design class focusing on becoming fully proficient with the use of the software.</p>
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Laboratory/Technical Skills

Experience with advanced laboratory techniques or equipment:

I have extensive experience with general shop machinery and tools including; Bandsaw, chop saw, lathe, milling machine, soldering, basic hand tools, drills, and drill press. I also have a general understanding of both Mig and Tig welding. For both personal and academic projects, I have used 3D printers, specifically Ultimakers. I also have a basic understanding of most laboratory equipment such as lab quests, titrating, hotplates, etc. from my chemistry laboratory course.

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PROGRAM INFORMATION

Eligibility

Have you previously participated in 2
SULI appointments? No

Previous DOE Internship/Fellowship or Lab Activity Experience

Have you ever had an
internship/fellowship with the
Department of Energy or any of its
National Laboratories (such as SULI,
CCI, VFP) or attended an activity at
one of the National Laboratories
(such as a Mini-Semester or
Sustainable Research Pathways)? No

Availability

What is the earliest date you can
begin your internship? 6/5/2022

When do you need to complete your
internship? 8/14/2022

First Choice Host DOE Laboratory

DOE Laboratory: Thomas Jefferson National Accelerator Facility (TJNAF)

First Choice Research Area: Engineering Mechanical

Second Choice Research Area: Engineering Electrical

Third Choice Research Area: Engineering Materials

Second Choice Host DOE Laboratory

DOE Laboratory: Oak Ridge National Laboratory (ORNL)

First Choice Research Area: Engineering Mechanical

Second Choice Research Area: Engineering Electrical

Third Choice Research Area: Engineering Materials

Relatives Employed at DOE Laboratories

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

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ESSAYS

Research Experience:	<p>An experience that I have had in the past was a mentorship at Jefferson Laboratory(JLab). With this mentorship, I was working with Mechanical engineer, Timothy Witlatch, to become more familiar with the engineering process and CAD software to design a set of mobile access stairs for the charged pion polarizability(CPP) platform. Because this mentorship took place online, there was a fair amount of independent research on types of materials, safety standards, as well as learning how to work with the CAD software I had access to. When working with my mentor I was able to improve on what I was unfamiliar with, and with the conclusion of this mentorship program, I presented the project to JLab employees as well as to the faculty at the Governor's school for science and technology. These presentations included a summary of the work done over the course of the mentorship as well as the materials to be used, the cost of such materials, and the CAD model that I had been working on throughout the course of the mentorship.</p> <p>Another project-based experience that I have had in my time with FIRST Robotics. When on the robotics team I worked closely with other students on the mechanical subteam as the mechanical lead as well as engineering mentors. On this team, I worked to find creative solutions to the new challenge we are given each year. I worked with my fellow team members to design, build, and test different components of the robot throughout the allotted 6-week building period.</p> <p>More recently I was a part of the Honors college engineering studio class at Old Dominion University. In this class, we were given a project, with this project certain aspects were assigned a point value for the end product. The better a group did in a certain area than others, the more points that group would receive. With my group, we chose to only focus on one category out of the four given. With a specific goal in mind, I kept my group on track through the prototyping process and when assembling the final design. When it was time to present and show our designs our group ended up benign first in the category that we decided to focus on.</p>
Research Interests:	<p>With an internship opportunity such as this one, I would like to expand on the knowledge that I have already obtained and apply them to engineering in a professional setting. I personally enjoy engineering experiences that are hands-on, being able to see engineering implemented, tested, and working is how I've connected with engineering in the past and how I would like to continue working with engineering as I move forward. One factor in my decision in Jefferson laboratory being my first choice is due to the fact that I have worked with this laboratory in the past. I have gotten the chance to do an engineering-based mentorship with them in 2020. I would like to take my experience with this laboratory and work with them in a more professional manner so I can better understand engineering in a professional setting. I chose my second choice due to their variety of engineering opportunities as well as their success rate with students in the past. They not only have mechanical engineering but a number of other types of engineering that I would be excited to have the opportunity to explore if I had the chance to intern with this laboratory. Because they have a high success rate with their past students I feel that if I get the opportunity to work at this lab I will certainly have the opportunity to learn more about practical engineering in a prestigious laboratory.</p>
Personal Experience:	<p>Both academically as well as personally I have been extremely passionate about pursuing engineering for my future. I began pursuing engineering in high school by applying and attending the engineering strand at the Governor's school for science and technology. This program allowed me to take college courses such as Physics, Calculus, and differential equations early on in my academic career. Meaning that entering into my freshman year at Old Dominion University I was able to be ahead in my classes, and take more rigorous engineering courses early on in my undergraduate career. I have also pursued engineering outside of the classroom. Before attending my university I participated in FIRST robotics where I worked with engineers to create and test a new robot every year as well as unique components on the robot depending on the task the robot needed to perform. This experience allowed me to understand the basics of the engineering process as well as to better my ability when working with a team and collaborating to make a successful product. More recently I have participated in the engineering living learning community(LLC) at Old Dominion University, which has allowed me to connect with my fellow engineering peers. With this community, I have been able to better understand and comprehend my coursework as well as being able to share our passions for our future careers in engineering. I have also had a chance to join the SAE Baja motorsports team at the university, which as I continue participation with will allow me to have a better understanding of a different aspect of the engineering behind motorsports, materials, stress and strain of a structure, troubleshooting as problems arise, and the budgeting behind engineering.</p>
Professional Goals:	<p>In the long term academically I see myself continuing on with getting my bachelor's degree in mechanical engineering. Due to the fact that I am ahead in my current studies, I would like to set aside time in my course load to acquire a minor in engineering in order to better accent my major and to be more prepared for my future career. As I continue my studies I plan on furthering my professional understanding of</p>

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engineering. During my summers I would like to continue expanding my knowledge of various engineering career paths. Being a part of the SULI program will allow me to understand what an engineering career at such a laboratory would be like, and will allow me to try and find whether or not this is the type of engineering that I would like to pursue further. In the long term, I would like to have a job coming out of my last year at Old Dominion, and with a guaranteed job being secured I would like to pursue a master's degree in engineering.

RECOMMENDATIONS

Recommendation 1: **First Name:** Kat
Last Name: Hennessy
Email: Kat@starartiststudio.com
Status: Received 1/6/2022

Recommendation 2: **First Name:** Timothy
Last Name: Whitlatch
Email: whitey@jlab.org
Status: Received 1/3/2022

How to Authenticate This Official PDF Transcript

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Record of: LAUREN ANN BUETER
*** WARNING ***
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Page: 1

Issued To: Lauren Bueter
Parchment:37290527

Course Level: Undergraduate

Current Program

Major : Mechanical Engineering

SUBJ NO.	COURSE TITLE	CRED GRD	PTS R
IN PROGRESS WORK continued:			
MAE 204	ENGINEERING MECH I-STATICS	3.00	IN PROGRESS
MET 230	ENGN GRAPHICS-MECH ENGN DESIGN	3.00	IN PROGRESS
In Progress Credits		15.00	

***** TRANSCRIPT TOTALS *****			
	Earned Hrs	GPA Hrs	Points GPA
TOTAL INSTITUTION	16.00	16.00	61.00 3.81
OVERALL	66.00	16.00	61.00 3.81
***** END OF TRANSCRIPT *****			

TRANSFER CREDIT ACCEPTED BY THE INSTITUTION:

TN FA19-SP21	ALL VIRGINIA CMTY COL SYSTEM		
ENGL 110C	ENGLISH COMPOSITION	3.00	TP
ENGL 211C	ENGLISH COMPOSITION	3.00	TP
HIST 104H	INTERPRETING THE AMERICAN PAST	3.00	TP
HIST 1ELE	ELECTIVE	3.00	TP
MATH 200	CALCULUS FOR BUSN AND ECON	3.00	TP
MATH 211	CALCULUS I	4.00	TP
MATH 212	CALCULUS II	4.00	TP
MATH 280	TRANSFER CREDIT-ORD DIFF EQUAT	3.00	TP
PHYS 231N	UNIVERSITY PHYSICS	4.00	TP
PHYS 232N	UNIVERSITY PHYSICS	4.00	TP
PHYS 323	MODERN PHYSICS	4.00	TP
SCI 2ELE	ELECTIVE	3.00	TP
STAT 130M	ELEMENTARY STATISTICS	3.00	TP
Ehrs: 44.00	GPA-Hrs: 0.00	QPts: 0.00	GPA: 0.00

HS ADVANCED PLACEMENT

GEOG 100S	CULTURAL GEOGRAPHY	3.00	AP
HIST 102H	EUROPE IN A WORLD SETTING	3.00	AP
Ehrs: 6.00	GPA-Hrs: 0.00	QPts: 0.00	GPA: 0.00

INSTITUTION CREDIT:

Fall 2021			
CHEM 121N	FOUNDATIONS OF CHEM I LECTURE	3.00	A 12.00
CHEM 122N	FOUNDATIONS OF CHEM I LAB	1.00	A 4.00
COMM 101R	PUBLIC SPEAKING	3.00	A 12.00
ENGL 127L	HONORS: INTRO TO LITERATURE	3.00	B 9.00
ENGN 110	EXPLORE ENGINEERING TECHNOLOGY	2.00	A 8.00
MATH 312	CALCULUS III	4.00	A 16.00
Ehrs: 16.00	GPA-Hrs: 16.00	QPts: 61.00	GPA: 3.81

Dean's List

Good Academic Standing

Spring 2022

IN PROGRESS WORK

ARTH 127A	HONORS-INTRO TO VISUAL ARTS	3.00	IN PROGRESS
ENGN 150	COMPUTER PROGRAMMING FOR ENG	4.00	IN PROGRESS
MAE 111	INFO LITERACY AND RESEARCH	2.00	IN PROGRESS

***** CONTINUED ON NEXT COLUMN *****

AN OFFICIAL SIGNATURE IS WHITE WITH A BLUE BACKGROUND

REJECT DOCUMENT IF SIGNATURE BELOW IS ALTERED


Humberto Portellez
University Registrar

OLD DOMINION UNIVERSITY

COURSE NUMBERING SYSTEM

Courses numbered 100-199 are primarily for Freshmen, 200-299 for Sophomores, 300-399 for Juniors, 400-499 for Seniors. Courses numbered 500 and higher are intended for Graduate students.

GRADES AFFECTING GPA

(Effective August 30, 1982)

A	=	4 grade points (Superior)
B	=	3 grade points (Good)
C	=	2 grade points (Satisfactory)
D	=	1 grade points (Passing)
F	=	0 grade points (Failing)
WF	=	0 grade points (Unofficial Withdrawal)

(Effective August 26, 1985)

A	=	4.00 grade points
A-	=	3.70 grade points
B+	=	3.30 grade points
B	=	3.00 grade points
B-	=	2.70 grade points
C+	=	2.30 grade points
C	=	2.00 grade points
C-	=	1.70 grade points*
D+	=	1.30 grade points*
D	=	1.00 grade points*
D-	=	0.70 grade points*
F	=	0.00 grade points
WF	=	0.00 grade points (Unofficial Withdrawal)

**Not assigned to graduate students*

GRADES NOT AFFECTING GPA

IB	=	International Baccalaureate Credit
AP	=	Advanced Placement Credit
CP	=	College-Level Examination Program (CLEP)
DP	=	University Departmental Examination
DN	=	Defense Activity for Non-Traditional Education Support (DANTES)
MP	=	Credit for Military Training and Education
TP	=	Transfer Credit
XP	=	Credit for Experiential Learning
F*	=	Failure (course taken on pass/fail basis)
I	=	Incomplete
II	=	Incomplete (not subject to time limit)
IP	=	Course In Progress
O	=	Audit (successful)
P	=	Pass (course taken on pass/fail basis)
Q	=	Progress but not proficiency
U	=	Unofficial Withdrawal (until August 1982)
W	=	Official Withdrawal
W&	=	Unsuccessful Audit
Z	=	Grade Not Reported by Instructor

LETTERS PRECEDING GRADES

T	=	Transfer Equivalent Credit for Graduate Students (excluded from GPA computations)
R	=	Adjusted Resident Credit (see next column)

SPECIAL NOTES

Symbols following grades and excluded from GPA computations:

/	=	Course taken under Grade Forgiveness Policy
*	=	Degree credit course taken under Pass/Fail Option
&	=	Course taken under Audit Option
#	=	Quality points and credit hours excluded from GPA calculations
>	=	Non-degree course taken under Pass/Fail Option
I	=	Following quality points - repeat course included in GPA
A	=	Following quality points - excluded from earned hours, averaged into GPA

ADJUSTED RESIDENT CREDIT

The following policy was adopted on October 29, 1971: Credit from a previous period of study with the grade of "C" or better will be applied to the student's program after a year's absence and a qualifying semester. The previous record is not calculated into the grade point average. Record of all courses taken is included in this transcript.

HONORS

(Based on a minimum of 60 hours with 54 GPA hours at ODU)

(Prior to August 30, 1982)

CUM LAUDE	3.25-3.49 cumulative GPA
MAGNA CUM LAUDE	3.50-3.74 cumulative GPA
SUMMA CUM LAUDE	3.75-4.00 cumulative GPA

(Effective August 30, 1982)

CUM LAUDE	3.40-3.65 cumulative GPA
MAGNA CUM LAUDE	3.66-3.85 cumulative GPA
SUMMA CUM LAUDE	3.86-4.00 cumulative GPA

(Added, effective December 14, 2003)

GRADUATE WITH DISTINCTION 3.66-4.00 GPA and 45-59 graded hours at ODU

LEADERS

Please visit www.odu.edu/leaders for detailed program information.

MISCELLANEOUS

Summer 1964

During the 1964 summer session courses were offered in both the quarter and the semester system. The type of credit earned is indicated by a "Q" (quarter) or "S" (semester) following the course description.

September 1964

Changed from quarter to semester system. Changed from 3.00 to 4.00 grading system for undergraduates.

September 1, 1969

The institution was renamed Old Dominion University.

September 1972

Changed from 3.00 to 4.00 grading system for graduates.

Inquiries concerning student records should be addressed to the
University Registrar, 1009 Alfred B. Rollins, Jr. Hall,
Old Dominion University, Norfolk, VA 23529-0053.

Old Dominion University is accredited by the Commission on Colleges of the Southern Association of Colleges and Schools to award baccalaureate, master's, education specialist, and doctoral degrees.

SULI PROGRAM APPLICATION RECOMMENDATION FOR LAUREN ANN BUETER

Recommender Contact Information

- **First Name:** Timothy
- **Last Name:** whitlatch
- **Title:** Hall D Engineer
- **Department:** Hall D
- **Institution/Organization:** Jefferson Lab
- **Telephone:** 757-876-1766
- **Email:** whitey@jlab.org

Applicant Information

Association

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

Over the school year from 2020-2021 Lauren was a student I mentored during this time. This is the time I have known Lauren. I had mentored her in an engineering project for Hall D at Jefferson Lab.

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.

At this time Lauren was a senior in High School and had taken basic calculus and physics courses which helped her in the project. Throughout the project Lauren was exposed to general Engineering practices including basic structural analysis, drafting/drawing, cost estimation and project presentation. She picked up on the principles and provided a reasonable design and defended her design successfully in a project design review. Lauren learned the basics and was able to apply them to the structural design of a platform to hold an experimental particle detector for an experiment called Charged Pion Polarizability. This project was accomplished remotely as JLAB was in COVID protocols that did not allow students on site. Lauren adapted to the situation and completed her project as planned.

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 LAUREN ANN BUETER

Recommender Contact Information

- **First Name:** Kat
- **Last Name:** Hennessy
- **Title:** Studio Manager
- **Department:** NA
- **Institution/Organization:** Starving Artist Studio Business
- **Telephone:** 757-594-0518
- **Email:** info@starartiststudio.com

Applicant Information

Association

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

I have worked with Lauren for over two years at Starving Artist Studio, located in Newport News, VA, and I have been her manager for most of that time.

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.

Lauren has studied engineering in school and been part of a robotics team. While I do not work with her in that specific field, at the art studio she consistently demonstrates strong critical thinking and problem-solving skills, in addition to creativity. Lauren also has great leadership qualities, and is an integral part of organizing and instructing our Summer Art Camps. In addition to school and working at the studio, she also balances volunteering her time at Blue Bird Gap Farm whenever possible while maintaining academic excellence.

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				