

John Yu

Print Name

3/2/24

Date

JEFFERSON SCIENCE ASSOCIATES, LLC/
THOMAS JEFFERSON NATIONAL ACCELERATOR FACILITY

JSA/Jefferson Lab High School Summer Honors Program Application

Address: 3039 Whitaker Island Rd. Telephone No. 602-359-8766
Williamsburg, VA, 23185 Date of Birth: 6/17/2007
e-mail Address: johnhwgu
Citizenship: U.S. Citizen johnhwgu@gmail.com

*Participants must be U.S. citizens or to Permanent Resident Aliens. The latter requires a copy of both sides of the alien registration card to be submitted WITH THIS APPLICATION.

Parent/Guardian Contact Information

Name: Erin Yu
Phone: 302-222-3305
email: heeranyu@gmail.com

Parent/Guardian Signature and Date:  3/3/2024

I am aware that my minor dependent is submitting an application for the JSA/Jefferson Lab High School Summer Honors Program, beginning June 26 to August 4, 2023. I understand that transportation is not provided and participants are expected to fulfill the attendance and program requirements.

How did you learn about this program? Family friend, Governor's School newsletter

Have you attended any educational programs at Jefferson Lab? ☐ Yes ☒ No

If yes, describe or list which program(s): _____

Have you been previously employed by JSA/Jefferson Lab? ☐ Yes ☒ No Dates: _____

Do you have any relatives working at JSA/Jefferson Lab? ☐ Yes ☒ No

Name: _____ Relation: _____

DEPENDENTS OF JSA/JEFFERSON LAB EMPLOYEES ARE NOT ELIGIBLE FOR THIS PROGRAM

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Name and Location of High School: Jamestown High school, Williamsburg

Counselor's Name: Kirsten Daisley

Current Grade Level: 11th

Grade Point Average: 4.0

List the courses you have taken and your grades in the following subject areas:

Science

Math

English

Honors Earth Science A Algebra I A

English 9 Honors A

AP Chemistry A Geometry A

English 10 Honors A

Alg II/Trig A

AP English Lang (currently enrolled)

Pre Calculus A

Other classes and/or special interests JSA/Jefferson Lab may consider relevant:

GSST Computational Physics

GSST College Calculus AB/BC

GSST Research Meth/Ethics

AP Physics I

What computer operating systems do you have experience with?

Microsoft Windows

Apple MacOS

What programming languages do you have experience with?

Python

HTML

CSS

Javascript

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List any academic or community service awards or special recognition you have received:

AP Scholar Award

AP with WE Service Recognition

Finalist at Tidewater Science & Engineering Fair

Workplace Readiness Skills achievement

List any extracurricular activities you are involved in, especially those in which you have a leadership role:

Varsity Tennis Team at Jamestown High School

Scholastic Bowl Club

Py Club for Python at GSST

Outline any previous work experience, including volunteer work:

Employer	Supervisor	Your Responsibilities	Dates	Phone
King's Feast Outreach New Life Church	Tanya Song	Pack & Prepare food for	2021-present	910-200-9703
Saturdays on the farm Wmgb Community Growers	Liz Callan	inner city outreach Work on community gardens	2022-2023	info@growwilliamsburg.org

Provide two adult references we may contact (not family members), at least one of whom is a math or science teacher who has taught you at school*:

Name	Phone
Islam Bedir	757-704-4282
Marina Dyakova	757-259-3600 ext 34141

*HAVE THE TWO ADULT REFERENCES COMPLETE REFERENCE FORMS
AND RETURN THEM TO YOU IN SEALED ENVELOPES.

ONE OF THE REFERENCES **MUST BE** A MATH OR SCIENCE TEACHER
WHO HAS TAUGHT YOU AT SCHOOL.

Use the space below to describe what you expect to gain from an experience at Jefferson Lab - how will it be a benefit to you? (use up to one additional page, if necessary)

I believe that an internship at JLab can be a transformative experience for me in my high school life that can enhance my technical skill sets, interpersonal skill sets, and shape my career and future choices. I want to embrace the opportunity by absorbing any teachable moments from those at JLab and be a contributing member to their efforts. I think some benefits are:

- I get to meet intelligent and renowned professionals in all different fields who can broaden my horizons and mentor me
- I can work on real-world projects that allow me to apply knowledge from the classroom to assist in real-world problems
- I will develop skills needed throughout life like critical thinking and fostering interpersonal connections to manage my time and

(see attached)

Use the space below to indicate what contributions you believe you would make to Jefferson Lab. What special skills or attributes would you bring to the organization?

I grew up in a family that is deeply connected to the field of nuclear engineering, as my dad graduated with a masters in the field and has worked at various powerplants across the country. He would always talk about the latest theories & discoveries, like the Higgs-Boson and Net Energy Gain in fusion, at any chance he got (because he was such a big nerd :)). This exposure to nuclear engineering throughout my life sparked an interest in the field for me, so when I saw the chance to intern at JLab, I jumped at it. I believe that I could provide a strong set of skills and abilities to JLab like:

- Intellectual curiosity and diligence in work ~~see attached~~ (see attached)

Describe what you expect to gain from an experience at Jefferson Lab - continued

Work well in a team environment

- I can gain experience working for prestigious organizations like JLab to contribute to the bigger picture, no matter how small my part

Indicate what contributions you believe you would make to Jefferson Lab - continued

- Solid understanding of physics, math, computer science, research & data analysis, and experience working in teams from rigorous courses at GSST
 - Proficiency in technical skills like Word, Excel, PowerPoint, and Python
 - Eagerness in attitude and willingness to learn and be challenged!
- I am quick to learn/adapt and open to taking on new challenges. I am excited about this opportunity to work on a JLab internship and be a part of the exciting and inclusive culture of science and research.

JSA/Jefferson Lab High School Summer Honors Program

Student Reference Form

John Yu has identified you as a reference on his/her application to participate in the JSA/Jefferson Lab High School Summer Honors Program. Please complete this reference form, seal it in an envelope, and sign across the flap before returning it to the student.

How do you know this student? He is enrolled in my Computational Physics class since Fall 2023.

How long have you known this student? 7 months

Please rate this student's academic performance in comparison to his/her peers: superior good average poor

Please rate this student's overall character in comparison to his/her peers: superior good average poor

On a scale of 1 (lowest) to 5 (highest), rate the student on the following:

<u>5</u> self discipline	<u>5</u> originality	<u>5</u> academic ability
<u>5</u> ability to follow directions	<u>5</u> leadership	<u>5</u> integrity
<u>5</u> initiative	<u>5</u> independence	<u>5</u> professionalism
<u>5</u> cooperation	<u>5</u> reliability	<u>5</u> work ethic

Please add any information you would like us to consider in evaluating this student.

John Yu is an excellent student whom I highly recommend!

Please indicate one of the following:

☒ I recommend this student without reservation ☐ I recommend this student with reservation*
☐ I recommend this student ☐ I do not recommend this student*

* If you have reservations or do not recommend the student, please explain:

Print Name: Dr. Islam Bedwe Position: Faculty/Ph.D
Signature: [Signature] Date: 03/07/2024
School: Governor's School for Sci & Tech.

Thank you for your cooperation.

JSA/Jefferson Lab High School Summer Honors Program
Office of Science Education, c/o Carol McKisson
Thomas Jefferson National Accelerator Facility
628 Hofstadter Road, Suite 6
Newport News, VA 23606

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Student Reference Form

John Yu has identified you as a reference on his/her application to participate in the JSA/Jefferson Lab High School Summer Honors Program. Please complete this reference form, seal it in an envelope, and sign across the flap before returning it to the student.

How do you know this student? He is my AP Physics 1 student

How long have you known this student? 2023-2024 school year

Please rate this student's academic performance in comparison to his/her peers: superior good average poor

Please rate this student's overall character in comparison to his/her peers: superior good average poor

On a scale of 1 (lowest) to 5 (highest), rate the student on the following:

<u>5</u> self discipline	<u>4</u> originality	<u>5</u> academic ability
<u>5</u> ability to follow directions	<u>4</u> leadership	<u>5</u> integrity
<u>5</u> initiative	<u>5</u> independence	<u>5</u> professionalism
<u>5</u> cooperation	<u>5</u> reliability	<u>5</u> work ethic

Please add any information you would like us to consider in evaluating this student.

John is an exceptionally talented and motivated student who consistently demonstrates intellectual curiosity and a commitment to scientific inquiry. He has shown an exceptional ability to apply theoretical knowledge to practical situations.

Please indicate one of the following:

X I recommend this student without reservation _____ I recommend this student with reservation*
_____ I recommend this student _____ I do not recommend this student*

* If you have reservations or do not recommend the student, please explain:

Print Name: Marina Dyakova Position: Science Teacher
Signature: Melanie V Dyakova Date: 3/5/2024
School: Jamestown HS

Thank you for your cooperation.

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