



Mentorship  
2024-25  
Thomas  
Jefferson  
High School  
for  
Science  
&  
Technology

# BE A MENTOR AND HELP OUR STUDENTS CHANGE THE WORLD

For over 30 years the TJ Mentorship Program has partnered with various agencies in the research community to allow our students the opportunity to expand their research capacity by working in a professional environment outside of the school setting. Our students' continued passion for STEM research has led to a surge in the number of applicants to our program.

For more information  
contact:

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**Mentorship Program Coordinator**

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# OUR PROGRAM

- Currently our students take courses elective courses that lead to senior research in one of the following areas :

- ASTRONOMY AND ASTROPHYSICS
- BIOTECHNOLOGY AND LIFE SCIENCES
- COMBINED ENGINEERING
  - AUTOMATION AND ROBOTICS
  - ENERGY SYSTEMS
  - PROTOTYPING & ENGINEERING MATERIALS
- CHEMICAL ANALYSIS AND NANOCHEMISTRY
- COMPUTER SYSTEMS
- MOBILE AND WEB APPLICATION DEVELOPMENT
- NEUROSCIENCE
- OCEANOGRAPHY AND GEOPHYSICAL SYSTEMS
- QUANTUM PHYSICS AND OPTICS



## OUR CURRENT NUMBERS

This year we have 129 students that have expressed an interest in our program. The numbers for each area are:

- ASTRONOMY ..... 9
- BIOTECHNOLOGY .....38
- CHEMICAL ANALYSIS .....11
- COMBINED ENGINEERING ..... 27
- COMPUTER SYSTEMS ..... 10
- MOBILE & WEB APP ..... 2
- NEUROSCIENCE..... 14
- OCEANOGRAPHY ..... 7
- QUANTUM MECHANICS & OPTICS..... 11
- TOTAL .....129



## THE PROGRAM

The Mentorship Program at TJHSST was created to offer an alternative way to meet the senior technology research graduation requirement, but is supervised and coordinated by the school's Mentorship Program Director. The process permits students to test their interests and apply their knowledge and aptitude in a real-life setting, working with professionals who have chosen to share their insights and expertise. **Mentor matching begins in February of each year.**

## STUDENT DELIVERABLES / TIMELINE

- October 2024 – Proposal from student about what they intend to research
- January 2025 – Draft of their project description for the Mentorship Showcase Booklet
- February 2025 – Draft of their presentation and their paper
- March 3, 2025 – Final project description, presentation, and poster (optional) due
- March 15, 2025 – Mentorship Showcase – students will present
- May 30, 2025 – Final draft of paper and poster due

## EXPECTATIONS

- Students complete 180 hours of research. The course is the full academic year.
- They receive 2.5 days (Mon, Wed, and Fri) a week release time from school.
- Their work schedule is based on the mentor's availability.
- Students receive guidance from their mentor either in person or virtual.
- The experience is unpaid. We are asking for time and knowledge.
- The student's research project can be independent or a part of their mentor's research