

**Thomas Jefferson High School
for Science and Technology
Partnership Fund**
Giving to Advance Educational Excellence

The Promise: In 1985, local businesses and public school leaders, fearing America was falling behind in math and science, created a new model public high school to meet the challenge –

Great Expectations!

The Vision: “To provide a dynamic specialized learning environment for selected students with high ability, aptitude, and interest in mathematics, science and technology...”

The Model: A Governor’s Regional School for Science and Technology where 90% of students complete an original senior research project in 1 of 12 onsite Technology Labs and 10% complete their projects offsite through a Mentorship Program with government or industry

Today: TJHSST is recognized nationally as the best high school in America for math and science (US News & World Report, November 2007)

Academic Experience

Focus*:

Communications	Experiential learning
Collaboration	Managing Change
Systemic Thinking	Ethics

Published Research: *TEKNOS*
Major Scientific Journals

*Note: All classes taught at the gifted, honors, AP or post AP level

What makes TJ Unique?

Student Research

VIA TJ’s 12 onsite Science and Technology Research Labs

Astronomy & Astrophysics	Energy Systems
Automation and Robotics	Microelectronics
Biotechnology	Neuroscience
Chemical Analysis	Oceanography & Geosystems
Computer Assisted Drawing	Optics & Modern Physics
Computer Systems	Prototyping & Engineering

AND

VIA TJ's Offsite Mentorship Program:

Seniors working in mentor's laboratories
Solving real world problems

Participants include (*partial list*):

National Institutes of Health	Georgetown University Medical Center
US Naval Research Center	Smithsonian Environmental Research Center
Aero Astro	Lockheed Martin Corporation
Orbital Sciences Corporation	US Geological Survey

The Caliber of TJ Students

SAT Scores*:

	<u>Writing</u>	<u>Mathematics</u>	<u>Critical Reading</u>
TJHSST	701	737	717
Virginia	500	513	512
Nation	497	518	503

*Total possible 800 on each section or 2400 total – School year 2006-07

College Attendance Data:

99% of TJHSST Class of 2007 matriculated to 4 year colleges

Class of 2007 received offers of over \$17 million in scholarships

Student Accomplishments

Over the past 15 years, TJHSST has earned a national reputation of excellence, exemplified in its

Academics:

- One out of every three seniors is recognized as a National Merit Semi-Finalist (the top ½ percent of all students in the nation)
- More than 75% of the student body becomes National Honor Society members
- TJHSST students sit for almost 2,500 college level Advanced Placement Exams
- 60% of the student body enters the *U.S. News and World Reports* top 25 colleges and universities each year

Science and Technology Activities:

- TJHSST was the first high school in the nation to be connected to the Internet
- TJHSST students are annually among the finalists in the prestigious Westinghouse/Intel Science Fair

- TJHSST Students are regularly chosen to represent our nation as members of International Olympiad teams in Chemistry, Physics, Mathematics, and Computer Science

Other:

- TJHSST teachers have been honored with national Teacher of the Year awards
- TJHSST alumni have distinguished themselves in the high-tech workforce

Awards

(partial list)

Intel International Science Fair
 Intel Science Talent Search
 USA Math Olympiad
 USA Chemistry Olympiad
 Siemen's Award for Advanced Placement
 US Department of Energy Science Bowl
 USA Biology Olympiad
 USA Computing Olympiad

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Princeton	13	Cal Tech	1
Harvard	8	MIT*	14
Yale	3	Stanford	5
Carnegie Mellon	13	Cornell	14
Columbia	7	Oxford Univ.	1
Duke	15	Dartmouth	2
Brown	4	U Penn	3
Tufts	1	U Virginia	92
William & Mary	40	Virginia Tech	35

*The highest number of students accepted from a single high school in the US