



# Hutch Tech JROTC

## Hutch Tech Students Tour MIT & Lincoln Laboratory



*August 2019 Newsletter*

*Cadet Azhane' Bridges & Cadet Christina*

On August 26th, a group of Hutch Tech JROTC cadets took on a tour of MIT Lincoln Laboratory. The tour began at the MIT Haystack Observatory in Westford, Massachusetts. Site director, Jeff, advised us with information on the history of the Haystack project which features the largest protected-radome telescope in the world!



To give us an introduction to understand the project better, we were given the opportunity to speak/whisper through the “Whisper Dish”(shown on the left) The cadets were able to see how sounds were transmitted through the radar dishes. After this, he went into depth explaining to us the construction and purpose of the Haystack Radome. The construction was done to protect the telescope from the weather conditions and to allow more accuracy within the antenna.



The cadets got the chance to go inside the radome and see the structure from within. We also saw the instilled parts designed to keep the telescope to function properly.

*“When I went inside the radome, I was amazed. I was amazed at how protected the radome must be. Even the temperature of the room must be perfect. Everything needed to be calculated beforehand and protected.”*

*-C/ Christina Herr*



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After the Haystack Observatory, the group went to Lincoln Lab (LL) in Lexington to give an overview of the facility. We even got to hear from four different speakers who spoke to us about opportunities and internships at the Lab for High School Students. They shared their background stories of transitioning from high school, to college, to working for LL. Along with that, they gave us advices to get to college on an advantage.

+MIT also is a facility for research and development areas that focus on new technologies for national security (including cyber security). They research and develop systems designed to ensure that national security missions can be successfully accomplish despite cyber-attacks. They also develop advanced hardware and software for processing datasets including speech, imagery, text, and network traffic.



*Special thanks to Bich Vu (former cadet) who made this all come together. Also, a special thanks to the guest speakers who gave valuable advice and everyone who contributed to make this a great trip; It was a pleasure!*