



Announcement for the 2020 NWS Boston/Norton Summer Student Intern Program

The National Weather Service (NWS) in Boston/Norton, MA is accepting applications for our volunteer Summer Student Intern Program until **4 PM EST Friday, February 28, 2020**. **One position is available this year.**

Background:

- This volunteer program gives students the opportunity to learn about NWS careers by gaining on-the-job experience.
- Students can earn academic credit if approved by their academic institution.
- Hours and days are flexible but you should be available at least 3 days per week.

Eligibility:

- Undergraduate students majoring in meteorology (or any of the physical sciences) or graduate students with a background in meteorology.
- You **must** be an enrolled student over the summer of 2020.
- You **must** be a U.S. citizen and will complete a security and background investigation.

Volunteer Duties:

- Work on a research project (***see the next page for the project description***).
- Shadow meteorologists on the job to learn about various responsibilities on shift.
- Other duties may include:
 - Visiting a Co-Op station, ASOS site, or river gauge site.
 - Assisting with Skywarn Spotter Training sessions or an Outreach event.
 - Spending a day at the Northeast River Forecast Center (located in our facility) and at the Center Weather Service Unit (CWSU) located at the Boston Air Route Traffic Control Center in Nashua, NH which provides support to the FAA.

How to Apply:

Applications consist of a resume and letter of interest which highlights your skills and interests in meteorology. The selection will be made in early March. There are two ways to apply:

1. **Email:** Joe DelliCarpini, Science and Operations Officer Joseph.Dellicarpini@noaa.gov
--or--
2. **Mail (Postmarked by February 28, 2020):**

Joe DelliCarpini, Science and Operations Officer
NOAA/National Weather Service
46 Commerce Way
Norton, MA 02766

NOTE: If you choose to email your application, please avoid including personally identifiable information for your own security. This includes your place of birth, date of birth, social security number, medical/financial information, and any other information that you would consider sensitive.



Project Title: **Assessing the Quality of Temperature Observations in Eastern Massachusetts – Is There a Warm Bias?**

Background and Objective: There has been speculation that the temperatures recorded by the Automated Surface Observing System (ASOS) at Logan Airport in Boston have exhibited a warm bias since 2018. Repeated calibration checks of the sensor by the office's electronics staff showed no significant performance issues or biases.

The goal of this project is to compare high and low temperature observations at Logan Airport with others from surrounding ASOS and mesonet sites in eastern Massachusetts to determine if there is an actual bias. Special consideration should be given to the following:

- Does the urbanized environment of Logan Airport lead to higher temperatures than in surrounding areas?
- If a bias does exist, is there a repeatable pattern indicated by the data?
- How does the wind direction and/or wind speed impact temperatures?

Skills: Knowledge of computer systems including MS Office is required. Familiarization with climatological data sets is preferred.

Expected Outcomes: The student will determine if there is a warm bias at Logan Airport and will gain a better understanding of temperature regimes in eastern Massachusetts. If time permits, the student can develop a guide for operational staff to help improve temperature forecasts. The student will also gain operational experience in a NWS field office.

Guidance and Supervision: The Science and Operations Officer (SOO) will supervise the student. The SOO, Observation Program Leader, and Climate Team Leader will meet with the student weekly to review progress and discuss any issues that may arise.

If you have questions about our Summer Student Intern Program or would like more information, please contact Joe DellCarpini, SOO:

Email: Joseph.Dellicarpini@noaa.gov

Phone: (508) 622-3250 extension 224