



**WHAT: Space Flight Experiments & CubeSat Professional Development Workshop for Teachers**

Teachers, how would you like to learn how to build an Arduino based miniature satellite with your students and launch it to the upper atmosphere and into space!? You will learn how to easily build and program a 1U CubeSat experimental platform with an Arduino microcontroller, 3D printed frame, and various sensors. You will have the opportunity to fly with your CubeSat on an airplane ride around the Brunswick area, then you will be part of a high altitude balloon mission to collect data from up to 100,000 feet in the stratosphere. After the workshop ends, take the equipment back to the classroom and work with your students to build a flight-ready CubeSat experiment, with regular Q&A check-ins with TIS staff and partners. Those experiments that pass all engineering milestones throughout the school year will be eligible to fly on a suborbital or orbital rocket launch with one of our space flight providers.

**WHEN: August 15th, 2022 – August 19th, 2022 / 8:30am – 5:00pm**

**WHERE: UMA Brunswick Center**

Orion Hall  
12 Sewall Street  
Brunswick, ME 04011

**MATERIALS:**

You Bring your own Windows/Mac laptop, we will provide the programs and show you how to install and use them.

**Note About Computers: School issued laptops generally will not work, as you will need to be able to install programs onto the computer. We will have a limited number of laptops available to loan for the duration of the workshop. If you need one, please select the option in the registration form.**

We will provide Arduino microcontrollers and various sensors that you will be able to keep and take back to the classroom.

**COST:** \$500 for Maine teachers, \$1700 for out-of-state teachers (**out-of-state teachers please email [info@tis.org](mailto:info@tis.org) to be put on our waiting list**)

### **Breakfasts & Lunches Included**

**50% of lodging costs will be covered for attendees who stay at the Days in by Wyndham in Brunswick.**

**[Find More Workshop Details Here](#)**