



ARRL Teachers Institute on Wireless Technology

Sponsored by The ARRL Education & Technology Program

Application for TI-1: Introduction to Wireless Technology

October 24-October 28, 2022 @ ARRL Headquarters, Newington CT

Application deadline is August 31, 2022

An Invitation to an ARRL membership!

An ARRL membership is not required to attend Teacher Institute, but we welcome your participation. Let ARRL open the door to the exciting world of amateur radio. As a member of ARRL, for as little as \$49 per year, you will receive benefits that include our monthly newsletter and QST or On the Air magazine, that will expand and enhance your amateur radio experience. It's easy to sign up at www.arrl.org/join or you can include the \$49 membership fee along with your application. Membership is non-refundable.

Section 1 - Personal Information

Be sure to include contact information that we can use to communicate with you during school and summer months. Make sure the email address(es) you provide will accept emails from @arrl.org.

Name _____ Call Sign (optional) _____

Home mailing address _____

City, State, Zip Code _____

Home phone _____ Cell phone _____

Home email address _____

School email address _____

Emergency contact _____

Relationship _____ Phone _____

Section 2 - School or Institution Information

School district _____

Name of school _____

School mailing address 1 _____

School mailing address 2 _____

City, State, Zip _____

School phone _____ School Federal Tax ID# _____

Total number of students in school (all grades) _____

Grade levels in offered in your school: _____

Grade level(s) you teach _____

Subject(s) you teach _____

Extracurricular activities (clubs, etc.) _____

Estimated number of students involved in your STEM-related clubs and classes _____

School Demographic Information

School classification (choose one from each row)

Urban

Suburban

Rural

Other _____

Public

Parochial

Private

Other _____

Percentage of overall student population that...

...is eligible for free or reduced-price lunches _____%

...is eligible for Title 1 Services _____%

...receive Special Education services _____%

Section 3 - Essay Questions (cont.)

4. Briefly describe any professional development or continuing education workshops you have attended during the past 5 years. How did you implement what you learned in your teaching assignment and how did your students benefit?

5. Where do you see yourself professionally in 3 years? in 5 years?

6. Have you ever applied for or hosted an ARISS radio contact? Yes No

7. Are you in correspondence with a local, amateur radio club? Yes No

Section 4 - Pre-Institute Survey

The purpose of this survey is to assess participants' familiarity with the material to be covered at the Teachers Institute so that we can adjust the curriculum and presentation of the content to better meet your needs. Your honest and considered responses on this survey will help us provide the best possible learning experience for everyone. We will not base your selection to the Teachers Institute on these answers.

Please use the following rating scale to evaluate your ability to explain each of the topics below:

- 1 – little knowledge
- 2 – some very basic knowledge
- 3 – working knowledge
- 4 – some experience teaching this topic
- 5 – competent to teach in this area

	Describe basic electrical components (names, identification, use, measurement).
	Describe fundamental laws of basic electronics Ohm's Law/Thevenin's Theorem).
	Explain how radio waves travel.
	Describe how signals are generated by electrical circuits.
	Explain how radio is used to send information (basics of modulation).
	Define what a microcontroller is and describe its general operation.
	Explain how radio and infrared signals are used to control devices remotely.
	Program a microcontroller.

Section 5 - Teachers Institute Requirements and Acknowledgment

Check the boxes to acknowledge your understanding and acceptance of the following Teachers Institute requirements.

- Each participant must bring a laptop computer that meets the following specifications:

Windows

Windows 7 or later operating system, with at least two available USB 2.0 or 3.0 ports*

Macintosh

macOS 10.7 or newer operating system, with at least two available USB 2.0 or 3.0 ports*

Apple laptops running Windows 7 or newer under Boot Camp, Parallels Desktop, or VMWare Fusion are acceptable if they meet all other requirements. **Laptops, netbooks, Chromebooks, and tablets running other operating systems are not acceptable.**

**Some newer laptops have only USB type-C ports. For these, you will need a USB type-C to USB 3 Type A adapter or hub.*



USB type-C

USB 2.0

USB 3.0

USB type-C (left) USB 3.0 (right)

Make and model of laptop you will bring: _____

Operating System and Version: _____

- Participants must be able to install programs and drivers on the computer. Many school computers have security features that make them unusable during the Teachers Institute. If you are going to use a school computer, make sure you have FULL access to the computer, and that you test the accessibility before coming to the Institute.
- Participants are expected to pay for travel, hotel, and meal expenses and will submit an expense reimbursement form at the conclusion of the Teachers Institute. Receipts are required for hotel and travel expenses. Expect approximately 2 weeks to process your reimbursement.
- Reimbursable expenses include travel (either airfare for an advance purchase coach ticket or mileage), lodging for up to 5 nights for in-state participants and 6 nights for out-of-state participants at an ARRL-designated hotel, and \$40 per diem for meals (no meal receipts required). To receive full reimbursement, participant must attend all 5 days of Institute classroom activities. Please see our Travel and Reimbursement Guidelines for more details.
- Participants traveling from out of state should arrive the day before the Institute and should schedule departure after 6 pm on the final day of the Institute or the day after the Institute. Early departures on the last day of the Institute to meet flight schedules are not acceptable, as important material is covered right up to the end of the final day. Participants who live within a 4-hour commute to the classroom are expected to provide their own transportation and will be reimbursed for mileage and 5 nights of hotel accommodations. Participants who live less than a 30-minute drive from the classroom are expected to commute daily and will be reimbursed for mileage. Mileage must be pre-approved. Accommodations for additional days or at locations other than the designated hotel are the responsibility of the participant.
- Participants are expected to attend Teachers Institute sessions from 8 a.m. to 4 p.m. each day. Attendance at optional evening activities, if any, is encouraged but not required.
- Each participant must complete a workshop evaluation at the conclusion of the workshop. Participants may be asked to provide feedback in the future about the training and resources provided during the Institute, and their effectiveness in student learning.
- Approved expenses and instructional resources provided by the Teachers Institute are paid for by donations to the ARRL Education & Technology Program Fund, and do not come from ARRL membership dues.
- The Teachers Institute is a professional development activity and therefore the presence of children would not be appropriate. There are no accommodations for childcare.

I have read the above requirements and will follow the ARRL Teachers Institute Travel and Reimbursement Guidelines and Procedures.

Applicant's Name (print)

Administrator's Name (print)

Applicant's Signature

Administrator's Signature

Section 7 - Payment Information

Your application cannot be reviewed until you have submitted the \$100 enrollment fee. Should you not be selected to participate in this year's Teachers Institute, you will be refunded the \$100 enrollment fee by June 1st. If you are selected, enrollment fees cannot be refunded after June 1st.

To submit your enrollment fee online, please go here: <https://www.arrl.org/teachers-institute-payment>

Or mail a check to:

ARRL Education & Technology Program
Attn: Ally Flynn
225 Main Street
Newington, CT 06111-1494

Note: If you are not currently an ARRL member, you may mail an additional \$49 with your application or apply online at: <http://www.arrl.org/membership>.

Section 8 - Submitting your application

Refer to the application checklist to be sure you submit all required items.

Your completed application and enrollment fee **must be received at ARRL by the application deadline of August 31, 2022.**

By Mail - Print your completed and signed application (Pages 1-6), and send it with the cover letter to:

ARRL Education & Technology Program
Attn: Ally Flynn
225 Main Street
Newington, CT 06111-1494

FAX - You may fax the signed application, survey, and cover letter to (860) 594-0259. Please include a fax cover sheet indicating '**Attn: Ally Flynn**'.

Email - scan and send your cover letter, signed application, and completed survey electronically to Ally Flynn at aflynn@arrl.org. Please include your name in the document title. For example: "JSmith TI-1 application". We prefer documents in PDF format.

Section 9 - Admission decision announcements

We will make every effort to advise you of our decision on your application and your session assignment by September 5th. We will contact you at the home email address you have provided. If you have not heard from us by that date, please feel free to contact us via email. Once selections are made, you will be emailed a direct link to reserve your accommodations at the designated hotel. We suggest you make travel arrangements as soon as you are notified. Please direct questions regarding your application to aflynn@arrl.org or call Ally Flynn at (888) 277-5289 x367 or (860) 594-0367

Section 10 - Completing and signing your PDF form

Acrobat DC (Mac or Windows) - Open this document in Acrobat Reader or Acrobat DC. In the Tools Panel, choose Fill & Sign. Click in the first empty field and enter the requested information. Use **tab** to move to the next field. To add signatures to a field, click the Sign button at the top of the window, choose the signature, and move it to the appropriate location on the form.

Preview (Mac) - Open the document in Preview, click in the first empty field and enter the requested information. Use tab to move to the next field. To add signatures to a field, choose **Tools > Annotate > Signature** and choose (or create) your signature.

Please include the following to complete your application:

- Cover letter on school letterhead stating your desire to attend, signed by you and a school administrator.
- Completed application form, including essays, self-assessment survey, and signatures. (Pages 1–7 of this document)
- Check or online credit card payment for the \$100 enrollment fee, payable to the ARRL Education & Technology Program. If you are not accepted, the enrollment fee will be refunded.
- OPTIONAL - Check or online credit card payment for \$49 for ARRL membership.