

ARRL Teachers Institute

2019 Web Application for TI-1: Introduction to Wireless Technology

Application Deadline is May 1st, 2019

An Invitation to an ARRL Membership!

ARRL membership is not required to attend ARRL's Teacher Institute, but we welcome your participation. Let ARRL open the doors for you 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 journal, QST magazine, that will expand and enhance your amateur radio experience.

It's easy to sign up at www.arrl.org/join. Take the next step as an active participant in ARRL and support the future of ham radio! See payment information on page 6.

Section 1 - Personal Information

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

Ham Radio Call Sign (if any)	
Cell 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		S	choo	1 Fed	leral 7	Гах II	D# _							
Total Number of Student	ts in Sc	hool	(all g	grades	s)									
Grade Level(s) in School		1	2	3	4	5	6	7	8	9	10	11	12	С
Grade Level(s) You Teach		1	2	3	4	5	6	7	8	9	10	11	12	С
Subject(s) Taught														
Extracurricular Activities	(Clubs	s, etc.)											
Estimated Number of stu	ıdents i	involv	ved ir	ı you	r ST1	EM-1	elate	d clu	bs an	d cla	sses			
School Demogra _l	phic l	Info	rm	atio	n									
School classification (ch	oose o	ne fr	om ea	ach r	ow)									
Urban S	uburba	.n		Ru	ral		O	ther	-					
Public P	arochia	ıl		Pri	vate		O	ther	-					
Percentage of overall stu	dent p	opul	ation	that	is									
Eligible fo	or free o	or rec	luced	price	e lunc	ches _		ç	%					
Eligible fo	or Title	1 Se	rvices	s		_%								
Receive S	oecial F	Educa	ition	servi	ces _		%)						



Section 3 - Essay/Video Questions

Reply to the following questions in written form or by addressing the questions in a video. Please limit the total length of the video to no more than six minutes. You'll find instructions for submitting the video at the end of this application form.

a. Describe your professional training and experience.

b. Describe your school environment and your current teaching assignment.

c. What do you anticipate your students will gain as a result of your participation in this workshop? How will this "fit" in your curriculum?

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



e.	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 teach-
	ing assignment, and how did your students benefit?

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



Section 4 - Pre-Institute Survey

The purpose of this survey is to provide a sense of participants' familiarity with the material to be covered at the Teachers Institute so that we can adjust the curriculum and presentation of the content during the Teachers Institute 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 for the Teachers Institute on these answers.

Please use the following rating scale to evaluate your ability to explain 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, identifi ation, 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
Identify the main components of a robotic system

Section 5 - TI-1 Session Preferences

The following TI-1 sessions have been scheduled for summer 2019. We will review applications and assign qualifying applicants to one of the sessions based on session preference, ability to attend, and travel distance. Indicate both your first and second choice of session, and whether you could attend each session as scheduled.

Dates	Location	Choice (1 or 2)	l can attend (yes or no)
July 15-19, 2019	Dayton Amateur Radio Association Dayton, Ohio		
July 22-26, 2019	ARRL Headquarters Newington, Connecticut		



Section 6 - 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 At least one available USB 2.0 or 3.0 port*

Macintosh

macOS 10.7 or newer operating system At least one available USB 2.0 or 3.0 port*

Make and model of laptop you will bring: _



USB type-C

USB 2.0

USB 3.0

*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.

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.*



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

Operating System and Version:	
☐ Participants <i>must</i> be able to install programs and drivers on the computer. Many computers have security features that make them unusable during the Teachers I you are going to use a school computer, make sure you have FULL access to the cor and that you test the accessibility before coming to the Institute.	Institute. If
☐ Participants are expected to pay for travel, hotel, and meal expenses and will subn reimbursement form at the conclusion of the Teachers Institute. Receipts are required hotel and travel expenses. Expect approximately 2 weeks to process your reimbur	uired for
☐ Reimbursable expenses include up to \$600 for travel, lodging for up to 5 nights for participants and 6 nights for out-of-state participants at an ARRL designated hot per diem for meals (no meal receipts required). To receive full reimbursement, p must attend all 5 days of Institute classroom activities.	tel, and \$35
Participants traveling from out of state should arrive the day before the Institute, schedule departure after 6 pm on the final day of the Institute or the day after the Early departures on the last day of the Institute to meet flight schedules are not a important material is covered right up to the end of the final day.	ne Institute.
Participants who live within a 4 hour commute to the classroom are expected to own transportation and will be reimbursed for milage and 5 nights of hotel accordant participants who live less than a 30 minute drive from the classroom are expected commute daily and will be reimbursed for mileage.	modations. ed to
Accommodations for additional days or at locations other than the designated heresponsibility of the participant	otel are the



Applicant's Signature	Administrator's Signature
Applicant's Name (Print)	Administrator's Name (Print)
imbursement Guidelines and Procedures.	
I have read the above requirements and will foll	ow the ARRL Teachers Institute Travel and Re-
Section 7 - Signatures	
	velopment activity and therefore children would e. There are no accommodations for child care.
11 1	arces provided by the Teachers Institute are paid & Technology Program Fund, and do not come
1 1	p evaluation at the conclusion of the workshop. back in the future about the training and resources ectiveness in student learning.
1 1	rs Institute sessions from 8 a.m. to 4 p.m. each ties, if any, is encouraged but not required.

Section 8 - 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 mid-May. 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 you can mail a check to:

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

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

Section 9 - Admission Decision Announcements

We will make every effort to advise you of our decision on your application and your session assignment by May 15. We will contact you at the 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 your are notified.

Please direct questions regarding your application for the Teachers Institute to ariedel@arrl.org or call Ally Riedel at (888) 277-5289 x367 or (860)594-0367.



Section 10 - Submitting Your Application

Refer to the application checklist in Section 11 to be sure you submit all required items. All components of your completed application and enrollment fee must be received at ARRL by the application deadline, May 1, 2019.

To submit video as part of your application, refer to the instructions in Section 13.

By Mail - Print your completed and signed application, and send it with the cover letter to:

ARRL Education & Technology Program Attn: Ally Riedel 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 addressed to Attn: Ally Riedel.

Email - scan and send your cover letter, signed application, and completed survey electronically to Ally Riedel at ariedel@arrl.org. Please include your name in the document title. For example: "JSmith TI application 2019.pdf". We prefer documents in PDF format.

Section 11 - Instructions for Submitting Video

You may post your video to YouTube, Dropbox or Google Drive, then share the link in an email to Ally Riedel at ariedel@arrl.org along with your application and cover letter.

via YouTube

If you're not familiar with posting video to YouTube, here's where you'll find an explanation of the YouTube upload process: https://support.google.com/youtube/answer/57407?hl=en

YouTube does not allow you to use your webcam directly to make a video, but there are alternatives: https://support.google.com/youtube/answer/57409?hl=en

If you do not want your video to be public, you may post your video as "unlisted". Here's how: https://support.google.com/youtube/answer/157177?hl=en

Send the link to your YouTube video in an email to Ally Riedel at ariedel@arrl.org along with your application and cover letter. Please indicate in the subject line "Teachers Institute Video Application" and your first and last name.



Section 12 - 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.

Section 13 - Teachers Institute Application Checklist

Include all of the following to complete your application:

Cover letter on school letterhead stating your desire to attend, signed by you and a scho administrator.
Completed application form, including essays or video, self-assessment survey, and sign tures. (Pages 1–7 of this document)
☐ Check or online credit card payment for the \$100 enrollment fee, payable to the ARRL
OPTIONAL - Check or online credit card payment for \$49 for ARRL membership.

