2018-2019 FIRST® Tech Challenge
Volunteer Coordinator Manual

Presented By Qualcomm

www.firstinspires.org

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Volunteer Thank You

Thank you for taking the time to volunteer for a FIRST® Tech Challenge event. FIRST® and FIRST® Tech Challenge rely heavily on volunteers to ensure events run smoothly and are a fun experience for teams and their families, which could not happen without people like you. With over 5,500 teams competing yearly, your dedication and commitment are essential to the success of each event and the FIRST Tech Challenge program. Thank you for your time and effort in supporting the mission of FIRST!

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Introduction

What is FIRST® Tech Challenge?
FIRST® Tech Challenge is a student-centered program that focuses on giving students a unique and stimulating experience. Each year, teams engage in a new game where they design, build, test, and program autonomous and driver operated robots that must perform a series of tasks. To learn more about FIRST® Tech Challenge and other FIRST® Programs, visit www.firstinspires.org.

FIRST Core Values
We express the FIRST® philosophies of Gracious Professionalism® and Coopertition® through our Core Values:

- **Discovery**: We explore new skills and ideas.
- **Innovation**: We use creativity and persistence to solve problems.
- **Impact**: We apply what we learn to improve our world.
- **Inclusion**: We respect each other and embrace our differences.
- **Teamwork**: We are stronger when we work together.
- **Fun**: We enjoy and celebrate what we do!

Gracious Professionalism®

FIRST® uses this term to describe our programs’ intent and Gracious Professionalism® is not clearly defined for a reason. It has different meanings to everyone. Some possible meanings of Gracious Professionalism include:

- Gracious attitudes and behaviors are win-win.
- Gracious folks respect others and let that respect show in their actions.
- Gracious Professionals make valued contributions in a way that is pleasing to others and to themselves.

In the end, Gracious Professionalism® is part of everyday life. When professionals use their knowledge graciously and individuals act with integrity and sensitivity, everyone wins, and society benefits.

Watch Dr. Woodie Flowers explain Gracious Professionalism in this short video.

Gracious Professionalism for Volunteers
It is a good idea to spend time going over this concept with volunteers. Provide volunteers with real-life examples of Gracious Professionalism in practice before, during, and after the event and recognize great Gracious Professionalism when you see it in action!

FIRST Volunteer Rights and Responsibilities

NOTICE OF NON-DISCRIMINATION
For Inspiration and Recognition of Science and Technology (FIRST®) does not discriminate based on race, color, national origin, sex, disability, age, status as a veteran who served in the military, religion, gender, gender identity, or gender expression in its programs and activities.

Keep updated at: http://www.firstinspires.org/about/legal-notices
Volunteer Rights and Responsibilities
Volunteers are the most valuable asset to FIRST®. Your selfless contribution of time and resources are instrumental in accomplishing our mission of inspiring the next generation of science, technology, engineering, and mathematics leaders and innovators. The foundation of the relationship between FIRST and our volunteers is respect.

It is your right to:
- Be treated with Gracious Professionalism®. Gracious Professionalism is a way of doing things that encourages high-quality work, emphasizes the value of others, and respects individuals and the community.
- Feel valued. FIRST recognizes the significant efforts that volunteers contribute. The time that you donate not only helps FIRST succeed but also builds the FIRST community.
- Understand your role. FIRST will inform you about what’s expected of you, your schedule, any meals you will be provided, any changes to program or policy, and who to contact should you need assistance.
- Expect a safe environment. FIRST strives to create and maintain a safe environment for all volunteers and participants and will always factor safety into program planning.
- Receive fair treatment and inclusion. All volunteers will be treated with respect and dignity in inclusive environments. FIRST does not discriminate on the basis of race, color, national origin, sex, disability, age, status as a veteran who served in the military, religion, sexuality, gender, gender identity, or gender expression in its programs and activities.
- Reevaluate your time commitment. FIRST appreciates all of our volunteers and understands that volunteers experience life situations that may affect their commitment.
- Communicate with your Volunteer Coordinator or your local FIRST leadership about:
  - Concerns or limitations that are affecting your volunteer role.
  - Any mistreatment towards you or others. You may be required to fill out a non-medical incident form.
  - Contact FIRST Headquarters directly if you feel that you are being treated improperly and attempts to resolve issues and conflicts at the local level are not successful. Volunteers can call (800) 871-8326 or email volunteer@firstinspires.org.

It is your responsibility to:
- Treat others with Gracious Professionalism®.
- Follow the schedule and the role description provided for your position. Contact your local FIRST leadership if there are any issues.
- Respect others, treat them fairly and kindly. Be inclusive and follow the non-discrimination policy of FIRST.
- Follow safety rules and ensure safety of others. Adhere to all FIRST Youth Protection Program (YPP) policies. Report any injuries or safety concerns within 48 hours.
- Adhere to the FIRST Code of Conduct.
- Have FUN!
Tournament Organization Structure

Figure 1 - League Tournament, Qualifying Tournament, Championship Tournament Organization

Figure 2 - League Meet Organization

Learn more about the roles of volunteers on our Volunteer Resources page, “Volunteer Role Description”.

*The Head Referee can also double as a Robot Inspector at Meets.

**The Field Technical Advisor can also double as the Field Inspector for Meets.

***Dependent upon the size of the event, Queues may not be needed at a Meet.
Job Description

The Volunteer Coordinator is responsible for recruiting and communicating with all event volunteers. The Volunteer Coordinator should also plan and complete activities for volunteer recruitment, selection, registration, support, and recognition.

The Volunteer Coordinator must ensure that an event is properly staffed with key and general volunteers to help with the entire event, and act as the main contact for all volunteers. It is important the Volunteer Coordinator manages and inspires all their volunteers. FIRST relies heavily on dedicated volunteers to help staff and deliver successful events and it is important that all volunteers have a positive experience.

The Volunteer Coordinator acts as a liaison, and ensures that all volunteers have proper training, event schedules, and clear expectations for the day of the event. The Volunteer Coordinator must work with and be a partner to the Affiliate Partner and Tournament Director during the event. Most importantly, as representatives of FIRST, Volunteer Coordinators are visible leaders in the community and must understand and display Gracious Professionalism, one of FIRST’s core values.

Prerequisite for Volunteer Coordinator Role

To serve as a Volunteer Coordinator, previous experience managing and communicating with multiple volunteers is required.

- **Physical/Technical Requirements**
  - Technical – Low
  - Physical – Medium
  - Administrative – High
  - Communication – High

- **Time commitment**: Time commitments can vary depending on experience, working arrangements with the Affiliate Partner, and the size of the event. Below is an estimated amount of time you may spend on staffing for an Event:
  - 3 to 6 months before the event – About 6 hours a week.
  - 2 to 3 months before the event – About 10 hours a week.
  - 1 month before and up to the event – Up to 20 hours a week.

Sometimes, the role of Volunteer Coordinator can be time-consuming for one person. Consider a team approach to help divide the work. One person can be responsible for communications, while the other may want to focus on recruiting.

- **Proper Dress**:  
  - Wear comfortable shoes. The Volunteer Coordinator will spend most of the day standing and walking between the pit area and the competition fields.
  - ANSI Z87.1 certified safety glasses are required in the competition and pit areas.

Volunteer Training and Certification

Volunteers must apply to their role using the Volunteer Registration System. After the volunteer has applied to their role, FIRST Tech Challenge will send an email to the volunteer with access instructions to training and certifications (if applicable). Emails with access to the training and certifications will be sent within one business day from applying to the role. If you have applied for a role but have not received access to the training, please email FTCTrainingSupport@firstinspires.org.

Gracious Professionalism® - “Doing your best work while treating others with respect and kindness - It’s what makes FIRST, first.”
Volunteer Coordinators should read this manual before the event. She or he should speak to the Tournament Director or Affiliate Partner to check for added requirements, such as meetings before the event or run-throughs of the queuing path before the event. The estimated training time is one hour.

**Volunteer Minimum Age Requirement**

*FIRST* requires that *FIRST* event volunteers be at least 13 years old, however, the Regional Planning Committee can increase the age requirement as needed. Adult volunteers cannot have children with them while volunteering or be responsible for supervising children at the event. Children under the minimum age are welcome at *FIRST* competitions with suitable supervision by someone other than a volunteer.

**Judge Advisor, Judge, Judge Match Observer Minimum Age Requirement**

The minimum age allowed for volunteers filling a role as a Judge Advisor, Judge, or Judge Match Observer is 21. Students who have been a part of a team must be at least 3 years removed from the team before they can serve as a Judge Advisor, Judge, or Judge Match Observers at an Official *FIRST* Tech Challenge event.

**Head Referee and Referee Minimum Age Requirement**

The minimum age allowed for volunteers filling a role as a Head Referee or Referee, is 21. Students who have been a part of a team must be at least 3 years removed from the team before they can serve as a Head Referee or Referee at an Official *FIRST* Tech Challenge event.

**WTA and CSA Minimum Age Requirement**

The minimum age allowed for Control System Advisors (CSA) and Wireless Technical Advisors (WTA) is 18.

**Key Volunteer Role Minimum Age Requirement**

Volunteers MUST be at least 21 years old before they can serve in a Key Volunteer Role for the *FIRST* Tech Challenge. Key Volunteer positions include: Volunteer Coordinator, Head Referee, Judge Advisor, Field Manager, Field Technical Advisor, Lead Robot Inspector, Lead Field Inspector, and Lead Scorekeeper. Local Affiliate Partners can make case by case exceptions to these guidelines by contacting *FIRST* for approval.

**Bring a Friend!**

Volunteers are a huge part of the *FIRST* Tech Challenge Program and continuing to inspire students to seek out careers in science, technology, engineering, and math (STEM). *FIRST* Tech Challenge needs your help in recruiting new volunteers to keep our programs thriving for future generations! If you have a friend or co-worker you think would be interested in volunteering at an event, there are just a few easy steps to help get them involved!

1. Check out our full list of volunteer opportunities online!
2. Have them apply for the event in the Volunteer Registration System. Volunteers must be screened before volunteering.
3. Have them contact Firsttechchallenge@firstinspires.org with any questions they may have.

If they are concerned about jumping in head first, no worries! Job shadowing at a *FIRST* Tech Challenge event is a great way to get a taste of what a full day's worth of competition looks like. New volunteers can discover ways they can fit their personal skills into a volunteer position!

**Role Responsibilities**

The Volunteer Coordinator’s main responsibility is to recruit all necessary volunteers for an event, or for multiple events. This is an important role, as *FIRST* Tech Challenge relies heavily on volunteers to run a successful event. Occasionally, there may be more than one Volunteer Coordinator, depending on the size of
the event and the number of events to plan for. The Volunteer Coordinator is the main contact for volunteers; communicating the dates, times, and sending out necessary training information.

The Volunteer Coordinator works closely with the Tournament Director or Affiliate Partner to ensure that all positions are filled on time. In some regions, the Volunteer Coordinator might work with a Tournament Planning Committee; a group of people who each have separate responsibilities in helping to plan and deliver a successful event.

The Volunteer Coordinator must also assign volunteers to a specific role after they are recruited. Many volunteers may already know which roles they would like to fill based on their skills and experiences. Some volunteers may not have an idea of which role they would like to fill. The Volunteer Coordinator will discuss choices with those volunteers to best match their skills with a volunteer role.

**Example Timeline**
The following timeline outlines some of the key tasks for Volunteer Coordinators and the timeframe before the event the task should be completed.

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<thead>
<tr>
<th>Task</th>
<th>7-8 Months Before</th>
<th>4 - 6 Months Before</th>
<th>2 - 3 Months Before</th>
<th>1 - 2 Months Before</th>
<th>After</th>
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<tbody>
<tr>
<td>Identify Volunteer Coordinator</td>
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<tr>
<td>Begin inviting Key Volunteers</td>
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<tr>
<td>Begin recruiting all general volunteers</td>
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<tr>
<td>Ensure Key Volunteers have access to Training Materials and Certification Tests</td>
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<tr>
<td>Ensure Key Volunteers have been trained</td>
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<tr>
<td>Ensure non-Certified Volunteers have been trained (if applicable)</td>
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<td>Send follow-up email with event details</td>
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<td>Order volunteer T-Shirts, thank you gifts (if applicable)</td>
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<tr>
<td>Assemble volunteer registration packets</td>
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<td>Confirm volunteer attendance</td>
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<tr>
<td>Send volunteer thank you's</td>
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**Pre-Event Day Responsibilities**

**Volunteer Roles**
Every Volunteer Coordinator must understand the volunteer roles and what is needed to run an event before they begin to recruit. *FIRST* relies mainly on volunteers to staff successful events. Below you will find a list of the volunteer positions that are necessary to staff an event.

**Lead Volunteers**
Lead Volunteers are the volunteer positions that have other volunteers reporting directly to them. They are often referred to as Key Volunteers. Lead Volunteers should have some ability to effectively manage and communicate with others. Make sure to assign your Lead Volunteers as early on as possible. These positions require training, and the earlier these roles are assigned, the sooner the trainings can be completed. Lead Volunteers may also be able to help with recruiting volunteers for other roles at the event.
Field Technical Advisor (FTA)
This should be one of the first roles filled for an event. The FTA is a volunteer who concentrates on technical issues (such as the scoring system, robot issues, etc.) and making sure the event runs smoothly from a technical perspective.

Head Referee
The Head Referees play a critical role in ensuring smooth flow of match play and keeping the pace of the event. Referees work under the direction of the Head Referee and may be required to take part in deliberations about contested Referee calls by teams.

Field Manager
The Field Manager takes part in field set-up and maintenance, directs activity on the field to ensure smooth execution of the matches. The Field Manager plays a critical role in ensuring smooth flow of match play and keeping the pace of the event.

Judge Advisor
The Judge Advisor coordinates the judging process, including training Judges, scheduling the judging interviews, facilitating group deliberation sessions, ensuring the award decisions are made, and the awards script is written. The Judges, Judge Assistant, and Judge Match Observers look to the Judge Advisor for training materials, schedules, and other general questions.

Lead Scorekeeper
The Lead Scorekeeper is responsible for entering each score into the Scoring System. The Referee provides the Scorekeeper with the score sheet. In the 2018-2019 season, the Scoring System will include a live scoring feature. While the Referees will be responsible for entering the scores electronically, the Scorekeeper will review the scores and make the scores official. The Scorekeeper is also responsible for running and managing the scoring system displays.

Pit Administrator
This role is necessary to help teams, spectators, or any other visitor to the event with answering questions. Stationed in the pit area, this person fields many questions throughout the day, from where the competition is happening, to timing of the event. This volunteer will collect necessary forms from teams and make important announcements to the teams throughout the day.

Lead Robot Inspector
Robot Inspectors perform mandatory robot inspections to ensure compliance with robot construction rules. Lead Robot Inspectors supervise the Robot Inspectors and act as a resource to the Robot Inspectors performing the inspections.

Lead Field Inspector
Field Inspectors perform mandatory field inspections to ensure that every robot can successfully connect and compete in a match. Lead Field Inspectors supervise the Field Inspectors and act as a resource to the Field Inspectors performing the inspections.

Lead Queuer
Lead Queueers manage the flow of teams to and from the competition area. Lead Queueers will work with the Tournament Director and the Field Tech Advisor (FTA) to create unrestricted paths to and from the pit area to the competition area. Serves as a guide to help the queueing staff ensure proper team flow to and from the competition area.
Lead Scorekeeper
The Lead Scorekeeper is the person responsible for making sure that the Scoring System is handled and set up correctly and that match scores are entered accurately. The serve as a guide/resource to the Scorekeeper who runs the scoring system during the event which provides the teams and audience scores of each match.

Additional Volunteer Roles
The following volunteer roles, although they are not lead roles, are all critical to ensure a successful event.

Referee
Referees have two main role distinctions; watching matches to call penalties and tracking the status of the match. Four Referees will be assigned to each field. There will be two Referees responsible for tracking and calling penalties as they occur during the match. The other two Referees tracks the score for either the red or the blue alliance. After completion of the match, the Referees will work together to finalize the score and account for any penalties assessed during the match. Every 5 matches, the Referees will trade responsibilities and continue to rotate responsibilities throughout the rest of the matches.

Penalties
Watches team matches, identifies rule violations, and "calls" them. Referees help the competitors to avoid breaking the rules of the game. Referees take part in deliberations about contested calls, working directly through the Head Referee.

Scoring
Referees record the status of the game and scoring elements during match play. There will be one Referee assigned to the blue alliance side of the field, and the other to the red alliance side of the field. They may track the status of the field on paper, using Score Sheets. Some tournaments may use live scoring, and the Referee will use an electronic device, i.e. tablet or laptop, to track the status of the field.

Judge
Panels of Judges are responsible for interviewing teams, visiting teams in the pits to gather more information, and watching matches. Most importantly they are responsible for deliberating on teams as a group to decide which teams deserve which award. The Judges report to the Judge Advisor.

Field Inspector
The Field Inspection process is in place to ensure that every robot can successfully connect and compete in a match. The Field Inspector must also go through the Field Inspection checklist which includes verifying settings on the team’s Android device to reminding the teams to stay on time for each match.

Robot Inspector
Robot Inspectors are responsible to ensure every robot follows the guidelines outlined in FIRST Tech Challenge Game Manual Part 1 and are ready to compete on the field. The inspection process involves filling out a checklist for every robot and placing a label or other unique tag on the robot after it passes inspection.

Queuer
Queuers are responsible for managing team traffic to and from the playing field. Stage and position teams in preparation for the start of matches. They play a critical role in ensuring smooth flow of match play and keeping the pace of the event.

Emcee and Game Announcer
Although these are two separate positions, sometimes they are combined into one. The Emcee is responsible for setting the tone of the competition, creating a fun and exciting atmosphere throughout the event. The Game Announcer introduces teams, provides play-by-play commentary, and reports scores to the audience.
**Control System Advisor**
The Control System Advisor (CSA) role is to assist teams with robot control system related issues. The CSA works in collaboration with the Field Technical Advisor (FTA) and/or Robot Inspectors, who may direct teams experiencing issues on the field or in the pits to the CSA for assistance.

**Scorekeeper**
Scorekeepers manage and operate the scoring system. The Scorekeeper enters match scores into the scoring system once received from the Referees. At some events, live scoring software may be run that will be ported into the scoring system. Scorekeepers play a critical role in ensuring smooth flow of match play and maintaining the pace of the event.

**Wi-Fi Technical Advisor**
The Wi-Fi Technical Advisor (WTA) is also responsible for monitoring the wireless spectrum and troubleshooting wireless issues at large and/or critical FIRST Tech Challenge events. Not every FIRST Tech Challenge event will require a WTA. Most smaller events (less than 40 robots) do not require the skills of a WTA.

There are many more volunteer roles that are necessary to a successful event.

<table>
<thead>
<tr>
<th>Additional Volunteer Positions**</th>
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<tr>
<td>Crowd Control</td>
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<tr>
<td>Floater</td>
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<tr>
<td>Judge Match Observer</td>
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<tr>
<td>Photographer/Video Crew</td>
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</table>

**For a full list with descriptions please see the Volunteer Role Descriptions document on FIRST's website. Manuals for most volunteer roles can also be found on the FIRST Tech Challenge Volunteer Resource page.

**Dean’s List Interviewer and Reviewer Roles**
There are two volunteer roles, the Dean’s List Interviewer and the Dean’s List Reviewer, that vary slightly from other event volunteer roles. Their main responsibility is to evaluate candidates for the Dean's List Award, which recognizes the most outstanding FIRST Tech Challenge students.

**Dean’s List Interviewer**
Dean’s List Interviewers’ main responsibility is to interview semi-finalists at an event; however, there are other responsibilities the interviewer must take on before and after the event. These responsibilities include:

- Review nominations before the event.
- Interview the semi-finalist during the event.
- Write a narrative about the interview after the event.

The Dean’s List Interviewer is not responsible for making any decisions on the finalists, rather they gather information to pass up to the Dean’s List Reviewers to help them decide which students move to the next round as finalists.

**Dean’s List Reviewer**
The Dean’s List Reviewers are responsible for deciding the Dean’s List Award Finalists. There will be at least two reviewers in a State or Region that work together to decide on who will be the finalists for that particular
State or Region. The reviewers must access the Dean’s List Award System to view the original nomination as well as the notes from the Dean’s List Interviewers. Once all the nominations and notes have been considered, the reviewers choose the finalists for the region. Finalists are announced at the State or Regional Championship. Dean’s List Reviewers do not need to be present at the event; rather they review each semi-finalist and enter the finalists in the Dean’s List Award System. This information will feed up to the State Championship Event Director.

**Required System Access**
Both of the Dean’s List roles need access to a system called the Dean’s List Award System. This system is where they will be able to access the nominations, type in interview notes, and select finalists. To allow a volunteer access to the system, they must first apply to the role of Dean’s List Interviewer or Dean’s List Reviewer in the Volunteer Registration System. Once they have applied, they must be assigned by the Affiliate Partner or Volunteer Coordinator to the role in the Volunteer Management System (VMS). The assignment in the VMS is what gives the volunteer access to the award system. Without this assignment, these volunteers will not have the information they need to prepare for an interview, or to review the candidates and make the finalist selections.

If a Volunteer Coordinator has questions or needs help with making an assignment, they should email FTCDeansList@firstinspires.org. Please make sure to copy the Affiliate Partner or Event Director, as this will speed up the process of making the assignment.

**Recruiting Volunteers**
There are many ways that you can recruit volunteers. There isn’t a right or wrong answer on how to do this, feel free to be creative! Here are just a few examples of ways that a Volunteer Coordinator can recruit volunteers.

**Sponsors**
Most events will have a sponsor or multiple sponsors supporting the event with donations. Asking a sponsor for volunteers to help staff the event is a great way to get them more involved with the program. Some companies even offer their employees volunteer hours which they can use to volunteer at the event.

**LinkedIn®**
LinkedIn® is a great resource that can be used to your advantage when recruiting volunteers. Like any other organization posting a job opening, the Volunteer Coordinator can work with the Planning Committee or Affiliate Partner to post volunteer positions that need to be filled. These postings can include the job descriptions and the skills needed to fill the role.

**Volunteer Job Shadow**
Some of the great feedback received over the years is that a volunteer who spends a day shadowing another volunteer feels more prepared and more successful to fill a role at a later event. Talk with the volunteers you have already recruited. See if they know someone who might be interested in tagging along for the day. This is a great way to expose the person not only to the position, but also to the excitement of the event.

**Additional Recruitment Opportunities**
The below lists are some other ways that a Volunteer Coordinator can recruit volunteers for an event.

- **FIRST** Tech Challenge or **FIRST** Robotics competition team members.
- Parents of team members.
- Word of mouth.
- Your planning committee.

*Gracious Professionalism®* - “Doing your best work while treating others with respect and kindness - It’s what makes **FIRST**, first.”


- **FIRST Senior Mentors** ([http://firstinspires.org/senior-mentors](http://firstinspires.org/senior-mentors)).
- **FIRST AmeriCorps VISTA program** ([https://www.firstinspires.org/vista](https://www.firstinspires.org/vista)).
- Speakers’ Bureau – Consider forming one for your event. Include planning committee members, volunteers, mentors and students. Students are very enthusiastic and effective **FIRST Tech Challenge ambassadors**.
- Community bulletin boards.
- Open house or robot demonstration.

There are multiple organizations that you can contact to gauge interest and recruit volunteers:

- Local or regional chapters of professional and technical organizations.
- The American Society of Mechanical Engineers (ASME).
- Society of Women Engineers (SWE).
- National Society of Black Engineers (NSBE).
- Society of Hispanic Professional Engineers (SPHE).
- Entrepreneurial Associations and Economic Development Groups.
- Information Technology Associations.
- Area computing groups.
- K-12 education associations.
- School Districts.
- Parent-Teacher Organizations.
- Senior Centers and Senior Citizen Organizations.
- Civic and Service Organizations – Kiwanis, Rotary, Lions, Chambers of Commerce, etc.

You can also reach out to corporations you may feel would have an interest in the program and that align with **FIRST**’s mission. You may also be able to recruit volunteers from current or prospective sponsors. You can find a list of **FIRST** sponsors on our website, [www.firstinspires.org/robotics/ftc/sponsors](http://www.firstinspires.org/robotics/ftc/sponsors). A few groups that align with **FIRST**’s mission include:

- Youth Service Organizations – Boy Scouts, Girl Scouts, 4-H, Boys and Girls Club.
- Colleges and Universities – both faculty and students.
Volunteer Training

Many volunteer positions need training and certification before volunteering at the event. The chart below outlines the roles that have training manuals, training video's, or required certifications.

<table>
<thead>
<tr>
<th>Role</th>
<th>Training Manual</th>
<th>Training Video</th>
<th>Certification Test</th>
</tr>
</thead>
<tbody>
<tr>
<td>Field Technical Advisor</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Head Referee</td>
<td>X</td>
<td>X</td>
<td>X</td>
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<tr>
<td>Referee</td>
<td>X</td>
<td>X</td>
<td>X</td>
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<tr>
<td>Judge Advisor</td>
<td>X</td>
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</tr>
<tr>
<td>Judge</td>
<td>X</td>
<td>X</td>
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<tr>
<td>Lead Scorekeeper</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Robot Inspector</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Field Inspector</td>
<td>X</td>
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<tr>
<td>Queuer</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Emcee and Game Announcer</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Volunteer Coordinator</td>
<td>X</td>
<td>X</td>
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<tr>
<td>Dean's List Interviewer</td>
<td>X</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>Dean's List Reviewer</td>
<td>X</td>
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<tr>
<td>Field Manager</td>
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<tr>
<td>Pit Manager</td>
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</tbody>
</table>

Volunteer Registration System
The Volunteer Registration System is where volunteers can apply to the role they are interested in. To apply for a volunteer role, the volunteer must visit www.firstinspires.org, and either sign up or log into the website. After signing in, they will need to click “Volunteer Registration”. The volunteer can then search for the event they would like to apply for, and the role they would like to serve. Volunteers will also need to continue to screening before volunteering at the event. Volunteers that do not complete background screening before the event will be treated as “walk-on” volunteers with limited role assignment on the day of the event. The volunteer can then provide added information such as:

- FIRST volunteer experience.
- Any team affiliations.
- Physical limitations
- Food allergies.
- T-shirt size.

This is a great tool that can provide you with better insight on how to match the volunteer to a position at the event that best fits their interests and experience.

Note: The minimum age requirement of a FIRST Volunteer is 13 years old. The Tournament Director can accept volunteers who are under 13 years old if there is direct adult supervision of that volunteer by an adult who has responsibility for the child. The Partner or Regional Director reserves the right to increase the
volunteer age limit for their region at their discretion. A minor must have a parent or guardian give written permission to volunteer. In addition, the FIRST Consent and Release Forms will need to be signed by a parent or guardian for any Volunteer under age 18. Many roles require volunteers to be older than 13 years of age. More information on minimum age requirements.

The FIRST Volunteer Management System (VMS)
The FIRST Volunteer Management System (VMS) is designed to help in management of event volunteers.

- VMS is for managing volunteers.
- Partners or Volunteer Coordinators can use the VMS to check a volunteers’ screening status.
- Partners or Volunteer Coordinators will use the VMS to assign volunteers that have registered and applied for events via their accounts on www.firstinspires.org.
- VMS can be used to view volunteers that have applied to events, including their role preferences, and other information, such as dietary restrictions and physical limitations.

Note: Volunteer Coordinators are any designated individuals the Partner feels should have access to the information stored in the Volunteer Management system. This includes, but is not limited to league committee members, Qualifier Directors, Volunteer Coordinators, etc.

Assigning Volunteers

An important part of staffing your event is assigning a volunteer to the most fitting position. Some events require:

- Long periods of standing on concrete floors.
- Certain skills/previous knowledge of FIRST Tech Challenge, FIRST, or the event.
- Two or more days commitments.
- A high degree of movement, energy and stamina.

Other factors to keep in mind when assigning volunteers:

- The volunteer’s interest.
- The volunteer’s skills.
- The volunteer’s experience.
- The volunteer’s age.
- The volunteer’s availability.
- The volunteer’s nearness to the venue.
- Any indication the volunteer may have physical limitations.

Just as important as it is to match the right volunteer with the right role, it’s equally important to make sure that we align the volunteer as close to their interests as possible. Keeping a volunteer enthusiastic and engaged only improves their experience and increases the chances the volunteer will participate in another event.

Many volunteers already have an idea of their preferences, as many have volunteered before. Let them know that you will do your best to fit them into the role they have requested. If the role they have requested has already been filled, make sure to communicate with that volunteer. Have recommendations ready for other positions that you need to fill, keeping in mind the volunteer’s experience, skills, and interests.
**Volunteer Time Commitments**

Make sure that when you are speaking with a volunteer about what position would be best for them, that you also discuss how much time they can give. If a volunteer can put in an entire day’s work might frustrate them on event day if this was not communicated clearly. Ideally, you should communicate that an event is a full day, however don’t turn away a Volunteer who can only give a few hours. This might be a great introduction to the excitement of an event and may entice them to volunteer for additional events throughout the season.

When discussing time commitments with your volunteers, remember that some volunteer positions do not require a full day’s work. In these instances, you can use these volunteers to help with other non-technical tasks throughout the day, such as giving other volunteers a break.

**Conflict of Interest**

Please ask all volunteers to disclose any potential Conflicts of Interest, and to complete the Conflict of Interest and Disclosure form. Some scenarios of conflict of interests:

- A coach or mentor is volunteering in a role that could impact the result of the event;
- A Parent or Relative of a team member is volunteering in a role that could impact the result of the event;
- Alumni (student or adult) of a team competing at the event is volunteering in a role that could impact the result of the event;
- A sponsor of a team that is competing at the event is volunteering in a role that could impact the result of the event;
- An individual who interacts with many teams within a region is volunteering in a role that could impact the result of the event;

Having a conflict of interest, or even the perception of a conflict of interest can impact a team’s experience, even if decisions that were made throughout the day were not biased in any way. The perception of potential favoritism is enough to discourage a team, coach or mentor, and take away from their overall experience. Knowing what conflict of interest is, and how to avoid being in a position that could be viewed as a conflict will ensure all teams feel they have been treated fairly.

Conflict of Interest, sometimes can be very black and white. In other cases, it may be a gray area, and it may be difficult to determine what makes up a true conflict of interest. Sometimes, the bias may be obvious, while other times a conflict of interest may be perceived by a team or a coach. It is best to keep the following in mind when volunteering:

- Be open and forthcoming about conflicts you may have with a team competing at the event.
- If there is a known conflict of interest, avoid deciding about a team that would change the result of the day, such as speaking for or against a team in judge deliberations, or making a game changing referee call in a match.
- Remove yourself from any situation that could be perceived as a conflict of interest.

Example: Award presenters are typically only utilized just prior to and during the award ceremonies. Consider other opportunities for this volunteer to assist with other areas of the event.
Parent or Relative or Alumni of a Team
If a parent or a relative of a team member is volunteering at an event, this volunteer must abstain from making any decisions that could impact the results of the tournament. Whether volunteering as a Judge or as field personnel (Referee, Field Technical Assistant, etc.) it is important to have that volunteer remove themselves from making any decisions related to that team. For example:

- If the volunteer is a Judge, they must recuse themselves from any conversations about that team during deliberations
- If the volunteer is a Referee, they should not be involved in any decisions around penalties, match replays, etc.

Keep in mind there are many ways conflict of interest can be present, from parents, to sponsors. Make sure to remove any seeming conflicts of interest, but also keep in mind any perceptions of conflicts.

Communication

Communication is an important part of ensuring that your volunteers are kept informed and up-to-date. Making sure that you are communicating with your volunteers will ensure they feel that they are part of the process and that they are valued. Communicating regularly, whether by phone or email, also keeps the event in the forefront of the volunteer’s mind. In addition, always make sure that when you send regular communications that you thank them for their commitment.

Frequency
The Volunteer Coordinator should plan to communicate with their recruited volunteers regularly leading up to the event. Communication should happen at least monthly, depending on how far in advance the volunteers are recruited. In the month before the event, there should be communication at least bi-weekly, if not weekly, to keep the volunteers in the loop about any updates or last-minute changes.

Initial Communication
Once a volunteer is assigned, they should receive communication from the Volunteer Coordinator outlining the date and time of the event, the address, the time commitments for the day, and any necessary training needed before volunteering.

Attire
Make sure that you and your volunteers have the appropriate attire for the event. Make sure volunteers wear comfortable, close-toes shoes, as they will be on their feet for much of the event.

Volunteer Staffing Plan
This is optional, however a great way to let your volunteers know who they will be working with throughout the day of the event. Creating a staffing plan will allow you to communicate to all your volunteers the names and roles of the other volunteers they will be working alongside with throughout the day. This can usually bring comfort to a volunteer as far as what to expect, and who they can reach out to if they need help.

Event Public Agenda
The event public agenda includes more specific start and stop times for activities such as inspections, opening ceremonies, etc. The agenda will be sent out by your Affiliate Partner and will affect some of the times and shifts for volunteers. Be sure to communicate firm start and stop times for volunteers until the public agenda has been created. This will be about one month before the event.
**Safety**
Make sure that all volunteers have ANSI Z87.1 certified safety glasses. Regular sunglasses do not qualify as safety glasses. If a volunteer wears prescription glasses, they must wear safety goggles over them or attach safety side shields.

**Transition from Autonomous to Driver Controlled Period**
Continuing in the 2018-2019 season, there will no longer be a hard stop following the autonomous period to transition to the driver-controlled period of the match. Once the autonomous portion of the match ends, the emcee or game announcer will tell the teams to pick up their driver station. As a visual cue, the scoring system will display to teams that they must pick up their driver station. Teams will only have 5 seconds to pick up their driver station, so they should make sure to pay close attention! After the 5 seconds, there will be a 3-2-1 countdown and the driver-controlled period of the match will begin right away. This is important to note for volunteers and teams who may have skipped the 2017-2018 season and are unfamiliar with this change.

**Event Day Responsibilities**

**The Event: Preparation and Overview**
If allowed by the facility where the event is being held, you should plan to be on site the day before. This will allow you to direct the flow of the set-up volunteers. It also gives you an opportunity ahead of time to familiarize yourself with the layout of the event, and where you will be directing your volunteers on event day. Remember that volunteers appreciate communication and direction. The better the instructions they receive the more confident they will be in their role.

Checklist for the day of the event:

- ANSI Z87.1 certified safety glasses.
- Walk-on Volunteer Application forms.
- Consent and release forms.
- Conflict of Interest forms.

**End of the Day**

**Follow up**
It is always best practice to ensure that you follow up with a “Thank you” after the event. You can write out a personal note thanking the volunteer if time allows. However even a general “thank you” will go a long way in the eyes of the volunteer. Depending on the size of your event and the resources that you have available, you could also follow up with a photo from the event, showing the volunteer that they were an important part of making that event successful and special.
Appendix A – Resources

Game Forum Q&A
http://ftcforum.usfirst.org/forum.php
Anyone may view questions and answers within the FIRST® Tech Challenge Game Q&A forum without a password. To submit a new question, you must have a unique Q&A System User Name and Password for your team.

Volunteers that apply for a specific volunteer role will receive an email from FTCTrainingSupport@firstinspires.org with their username and password to the forum. You will receive access to the forum thread specific to your role.

FIRST Tech Challenge Game Manuals

FIRST Headquarters Pre-Event Support
Phone: 603-666-3906
Mon – Fri
8:30am – 5:00pm
Email: firsttechchallenge@firstinspires.org

FIRST Tech Challenge Event On-Call Support
These numbers are available for event personnel only. Please do not call these numbers if you are a team looking for a ruling, a decision, or help. We trust that you will not misuse this resource.

Day of Event Robot Control System and Scoring System Support: 603-206-2450
All other Day of Event support: 603-206-2412

FIRST Websites
FIRST homepage – www.firstinspires.org
FIRST Tech Challenge Page – For everything FIRST Tech Challenge.
FIRST Tech Challenge Volunteer Resources – To access public Volunteer Manuals.
FIRST Tech Challenge Event Schedule – Find FIRST Tech Challenge events in your area.

FIRST Tech Challenge Social Media
FIRST Tech Challenge Twitter Feed - If you are on Twitter, follow the FIRST Tech Challenge Twitter feed for news updates.
FIRST Tech Challenge Facebook page - If you are on Facebook, follow the FIRST Tech Challenge page for news updates.
FIRST Tech Challenge YouTube Channel – Contains training videos, Game animations, news clips, and more.
FIRST Tech Challenge Blog – Weekly articles for the FIRST Tech Challenge community, including Outstanding Volunteer Recognition!
FIRST Tech Challenge Team Email Blasts – contain the most recent FIRST Tech Challenge news for Teams.

Feedback
We strive to create support materials that are the best they can be. If you have feedback about this manual, please email firsttechchallenge@firstinspires.org. Thank you!