



23rd **ROBOFEST** 2022

General Rules

V 1.1– FINAL Version for 2022 season

This file can be found under the **Get Involved** → **2022 Main Page** on the website
Coaches are responsible for communicating rules updates to participants

www.robofest.net

robofest@ltu.edu

248-204-3568

Room J233 Taubman Complex, LTU
21000 West 10 Mile Road, Southfield, MI 48075, USA

Table of Contents

Section	Pg	Section	Pg
1. Mission Statement	3	12. Team Volunteers	26
2. Features of Robofest	4	13. Team Responsibilities	27
3. 2022 Schedule	5	14. Video Submission Qualifier	29
4. Qualifier Categories	6	15. Judging and Awards	32
5. Open Categories	7	16. Advancing to World Champ – US Teams	33
6. Competition Formats	9	17. Advancing to WC – International Teams	36
7. Registration Fee Schedules	12	18. Robofest Scholarship	38
8. General Team Rules	15	19. Certificates, Medals and Awards	39
9. Team Coach Rules	17	20. Robofest Team Pledge	40
10. Registration Process	20	21. Robofest Coach’s Pledge	41
11. Robofest Assessments or Surveys	25	22. Online Format	42

1. Robofest Mission Statement

Robofest's mission is to:

- Generate excitement and interest among young people for Science, Technology, Engineering, and Mathematics (STEM), Arts, and Computer Science
- Develop essential skills such as teamwork, leadership, creativity, communication and problem solving
- Prepare students to excel in higher education and technological careers

2. Features of Robofest

Robofest® is an annual robotics competition, hosted by Lawrence Technological University, designed to promote and support Computer Science, Arts, and STEM (Science, Technology, Engineering, and Math) learning through autonomous robotics. The many features include:

- 100% Autonomous – sensors required
- Challenging - dynamic playing fields, unknown factors, and **no** direct adult help allowed
- Any robotics kit / system allowed
- Affordable - reuse old kits; low registration fees: (\$75 per team per event)
- Pre- and Post-Assessments (email/online)
- Age Divisions for most categories:
 - Jr. Division: 5th – 8th (in spring 2022)
 - Sr. Division: 9th – 12th (in spring 2022)
- Variety of competition categories for more opportunities in STEaM learning

3. Schedule for 2022

- **Dec 8:** Kickoff Meeting – International Rules reviewed and revised for clarity. Site Host application and LOA forms available
- **Jan 15:** Kickoff Meeting II – Updated Rules reviewed and revised
- **Jan 18:** US Final Rules published
- **Jan ~ Mar:** Technical workshops In-Person at LTU and Online
- **Jan ~ Apr:** Qualifiers hosted by International and US Site Hosts and Robofest Office (Multiple Formats)
- **Feb 12:** Warmup event on LTU campus (Judge Training)
- **February ~ April:** Post-assessment survey sent to coaches
- **April 18:**
 - Video Qualifier Submission deadline for US and International Video Game and Exhibition teams
 - Video Submission deadline for Virtual Regional Screening of Winning US Exhibition teams
- **April 21:** Video Qualifier and Virtual Regional teams notified of advancement to World Championship
- **April ~ May:** Robofest Online World Championship (ROWC) Events

4. Qualifier Categories

Teams must compete at a 2022 In-Person, Online or Video Qualifier in order to advance to the ROWC Final event

Competition Category	Age (Grade*) Divisions	Maximum Team Size	Robot Platform	Unknown Factors	Note
Game	Jr. (5 th -8 th) & Sr. (9 th -12 th)	5	Any	Partially unknown	Each team uses a fully autonomous robot to play this year's game, OceanBots
Exhibition	Jr. (5 th -8 th) & Sr. (9 th -12 th)	5	Any	Lighting Conditions	Teams have complete freedom to show off a creative autonomous robotics project

(*) School Grade in spring 2022 - For exceptions to student's grade, complete the online "Age Division Waiver Request" at the time of registration

5. Open Categories (1/2)

Any team from around the world (except from Member Countries) may register online as long as space is available, with no qualification necessary

Competition Category	Age (Grade*) Divisions	Max Team Size	Robot Platform	Unknown Factors	Competition Venues:
Unknown Mission Challenge (UMC)	Jr. (5 th -8 th) Sr. (9 th -12 th)	4	LEGO NXT, EV3, SPIKE Prime, or VEX IQ	Fully unknown	Robofest Online World Championship, Hosted by Robofest
BottleSumo+ and BottleSumo Time Trials++	Jr. (5 th -8 th)	3	LEGO NXT, EV3, SPIKE	Partially unknown	+Local Sites
	Sr. Classic (9 th -12 th)	3	Prime or VEX IQ	Partially unknown	++Robofest Online World Championship, Hosted by Robofest
	Sr. Unlimited (9 th -12 th)	3	Any	Partially unknown	

(*) School Grade in spring 2022 - For exceptions to student's grade, complete the online "Age Division Waiver Request" at the time of registration

5. Open Categories (2/2)

Any team from around the world (except from Member Countries) may register online as long as space is available, with no qualification necessary

Competition Category	Age (Grade*) Divisions	Max Team Size	Robot Platform	Unknown Factors	Competition Venues:
RoboArts	Jr. (5 th -8 th) Sr. (9 th -12 th)	5	Any	Lighting Conditions	Local Sites & Robofest Online World Championship, Hosted by Robofest (Video Submission)
RoboParade	Jr. (4 th -8 th)	5	Any	Lighting Conditions	Local Sites & Robofest Online World Championship, Hosted by Robofest (Video Submission)
RoboMed	Sr. (9 th -12 th) College	5	Any	Lighting Conditions	Robofest Online World Championship, Hosted by Robofest (Video Submission)

(*) School Grade in spring 2022 - For exceptions to student’s grade, complete the online “Age Division Waiver Request” at the time of registration

6. Competition Formats for 2022 (1/3)

- Game and Exhibition Qualifiers
 - In-Person Qualifiers
 - Teams travel to venue
 - Hosted by:
 - International Site Hosts for local teams
 - US Site Hosts for local teams
 - Video Submission Qualifiers (Additional information in section 14)
 - Teams record and submit video link to site host by stated date
 - Hosted by:
 - Robofest Office for all US and International teams in non-member countries
 - Online Qualifiers (additional information in section 24)
 - Synchronized competition/Multiple teams competing through an online platform (Zoom) at one time
 - Hosted by:
 - US Site Hosts for local teams
 - International Site Hosts for local teams
 - Robofest Office for all US and International teams in non-member countries

6. Competition Formats for 2022 (2/3)

- Open Category Events
 - In-Person Open Categories
 - Hosted by:
 - US Site Hosts for local teams
 - International Site Hosts for local teams
 - Online Open Categories
 - Hosted by:
 - US Site Hosts for local teams
 - International Site Hosts for local teams

6. Competition Formats for 2022 (3/3)

- Robofest Online World Championship (ROWC) Events
 - Hosted by Robofest Office April ~ May 2022
 - Top Game and Exhibition teams from US and International Qualifiers advance to compete in the Robofest Online World Robofest Championship Finals an Open Categories
 - Online Synchronous Game and Exhibition Finals, UMC and BottleSumo Time Trials
 - Video Submission RoboArts, RoboMed, and RoboParade
 - Registration will open on March 1, 2022
- Final Schedule and registration information are posted on [Robofest.net](https://www.robofest.net)

7.1 Registration Fee Schedule – US

- Registration Fee paid to LTU Robofest
- Applied to each event
- Site Host may request additional site check-in fee to cover costs
- No refunds will be given
- Teams who advance to the Robofest World Championship will pay a separate World Championship Registration Fee to LTU Robofest

Event/Format	Hosted by	Fee	Competition Materials (Certificates, Medals and Awards)
Qualifier - Online	US Hosts LTU Robofest Office	\$75	Robofest automatically ships to Teams after completion of event
Qualifier - Video Submission	LTU Robofest Office	\$75	Robofest automatically ships to Teams after completion of event
Qualifier - In-Person	US Hosts	\$75	Robofest Ships to Site Host – Presented to teams at event
Open Events - In-Person *May differ by site	US Hosts	\$75*	Robofest Ships to Site Host – Presented to teams at event

7.2 Registration Fee Schedule- International

- **Some International Site Hosts may have different fee structure**
- Applies only if Registration Fee is paid directly to LTU Robofest
- No refunds will be given
- Sites may request additional site check-in fees
- Teams who advance to the ROWC will pay a separate Registration Fee to LTU Robofest

Event/Format	Hosted by	Fee	Competition Materials (Certificates, Medals and Awards)
Qualifier - Online	International Hosts	\$75	Site Host ships to Teams after completion of event
Qualifier - Video Submission (teams from non-member countries)	International Hosts LTU Robofest Office	\$75	Robofest ships to Teams after completion of event
Qualifier - In-Person	International Hosts	\$75	Teams receive items at event
Open Events - In-Person *May differ by site	International Hosts	\$75*	Teams receive items at event

7.3 Registration Fee Schedule – Robofest Online World Championship (ROWC)

- Registration Fee paid to LTU Robofest
- Applied to each Category
- No refunds will be given

Event/Format	Hosted by	Fee	Competition Materials (Certificates, Medals and Awards)
Synchronous Online <ul style="list-style-type: none"> • Game Finals • Exhibition Finals • UMC • BottleSumo Time Trial 	LTU Robofest Office	\$75	Robofest automatically ships to Teams after completion of event
Video Submission <ul style="list-style-type: none"> • RoboArts • RoboMed • RoboParade 	LTU Robofest Office	\$75	Robofest automatically ships to Teams after completion of event

8. General Team Rules (1/2)

Team Formation

- Any organization such as a school, home school, civic organization, club, etc. can form teams
- Grade Level Divisions for each competition category are indicated in the previous Tables. Grade levels denote the student's grade as of spring, 2022
- For any exceptions in a student's grade, the coach must complete the online "*Age Division Waiver Request*" at the time of registration
 - Playing up from lower grades into Jr. Division and from Jr. Division to Sr. Division is allowed as long as the student has exceptional talent in construction of the robot *and* computer programming, and has the ability to set up, solve problems and contribute to their team during the competition. Examples must be specified on the request
 - Playing down is discouraged. The reason to request playing down must be specified on the request
 - For either playing up or playing down, coaches should obtain consent from their entire team and their parents and agree to the provisions of the waiver. Robofest will notify the coach of the age waiver decision
- A team member may join multiple teams *in other competitions, not in the same category*. For example, a student can join a Game team and an Exhibition team. When a coach has multiple game teams, a student can join only one game team
- A team can register at multiple qualifying sites if they would like a second chance to qualify

8. General Team Rules (2/2)

Team Registration

- Registered Robofest Coaches register teams; a coach may have multiple teams using the same coach ID #
- Team registration is managed online at www.robofest.net. (see Section 10)
- Registration deadline is 10 days before the competition date for each site
- Competition category may be cancelled if 5 teams are not registered
 - Teams already registered can request transfer to another online site or In-Person site if one is within a reasonable distance OR
 - Teams can transfer their registration to another qualifier format
- Site Host may collect an additional Site Check-In fee for in-person Qualifier or Video Qualifier, which will be used solely by the competition host site. Each qualifying site web page specifies the fee amount under “Site Check-In Fee”

9. Team Coach Rules (1/3)

Coach Qualifications and Roles

- Must be adults with no criminal record
- Must agree to and abide by the Coach's Pledge (Section 23)
- Must have a valid email address and must check the email account regularly
 - Email is the primary and official communication method between the Robofest organizer and the team. Coach must submit AND confirm email address changes in the Robofest registration system by logging into the coach's Robofest account
- Must enter and verify team information before registration closes (**10** days before the competition)
 - Each team member's personalized certificate and participation medal will be printed based on the information the coach enters on the website
 - Robofest will charge to reprint items due to incorrectly entered information
- Must coordinate pre- and post-assessments (or surveys) online to help Robofest administration gather data regarding the students' learning of STEM subjects
- May register **different** teams for multiple qualifying sites using the same Coach ID
- Facilitate, transport, and oversee team members at team meetings and at Robofest competitions

9. Team Coach Rules (2/3)

Team Sponsorship

Up to 4 Team Sponsors can be recognized in the registration system. These sponsors can be individuals, groups, or other organizations that donate cash, products, or in-kind services to the team

Coaching Teams

- Coaches, parents, teachers or mentors may not directly assemble the robots, or write/edit the program code for the team at any time. During coaching sessions and team meetings, coaches should teach and/or provide necessary training for the team to solve the challenge problems by themselves
- Robofest Recommends that coaches recruit technical mentors or assistant coaches if necessary. - Contact local IEEE (Institute of Electrical and Electronics Engineers) chapters (Robofest medal sponsor), ACM (Association for Computing Machinery) chapters, engineers' societies, robotics clubs, tech companies, community colleges, or universities to find volunteer technical mentors
- Robofest provides some technical workshops at LTU and/or online. Books, multimedia curriculum, and other online resources are also available

9. Team Coach Rules (3/3)

Consent & Media Release Form and Publicity

- All team volunteers coaches, and students must submit an *Informed Consent, Release and Media Authorization Form* and agree to our *privacy policy*
 - Coaches must agree to the Privacy Policy and Consent and Release Form online each time they register a team
 - Student form can be completed by the parent electronically through the registration system:
 - On the team registration page, the coach enters a "Parent Email" for each student
 - The parent will receive an automated email with a link to complete and submit the form online
 - If the coach does not have the parent's email at the time of registration, the coach can enter his/her own email address and can then forward the link to the parent OR the coach can update the parent's email and send the link at any time prior to the registration close date
 - If no online form has been submitted, a hard copy form (signed by the parent) must be submitted to the hosting site during check-in on the date of the event **OR emailed directly to the Robofest Office (robofest@ltu.edu)**
 - Fillable PDF available on the robofest.net website: <https://robofest.net/RobofestConsentReleaseForm.pdf>
- Before and after Robofest, please contact newspapers, radio, and TV stations to recognize your teams' efforts and achievements. Let Robofest administration (robofest@LTU.edu) know if your teams were featured in any media outlets

10. Registration Process (1/5)

Step 1 - Coach Registration:

- **New Coaches**

- Submit new [coach registration](#) online at www.robofest.net.
- After submitting the registration form, a numeric Coach ID will immediately be sent to the coach by email from *do-not-reply@robofest.net*
 - YOU MUST CONFIRM COACH REGISTRATION BY CLICKING A LINK IN THE EMAIL CONFIRMATION SENT TO YOU
 - If you do not receive the confirmation email, contact robofest@LTU.edu or 248-204-3568 to resolve the problem. (An incorrect email address in the coach registration form may be the cause)
 - Please also check your spam folder before contacting us

- **Returning Coaches** are encouraged to use their prior coach ID and password. If you forgot your Coach ID or password or ID, click on "[Forgot Coach ID or Password](#)"

10. Registration Process (2/5)

Step 2 - Team Registration:

- Register early - a competition division/site will close when registration reaches maximum capacity. AND
- A division/site will be canceled if minimum registration is not met
- Using the numeric coach ID and password, create teams in selected site. Enter the chosen Team Name, robot type and programming language
- Exhibition Style (Exhibition, RoboArts and RoboMed) teams only - enter a short project description
- Team Video URL field is for teams who compete via Game Style Video Qualifier Teams and for all Exhibition Style Teams
- Enter each team member's first name, last name, gender, grade (for exceptions to grade, see sections 4-5), student email address, parent email address (to send a link to submit the *Informed Consent, Release and Media Authorization Form* and agree to our *privacy policy*), and ethnicity
- Optional: Enter each team volunteer's (other than the Head Coach) first name, last name, role and email address and Enter each sponsor's name and email address
- Accept the Robofest Coach's Pledge (Section 23), agree to the *Informed Consent, Release and Media Authorization*, and agree to our *privacy policy*

10. Registration Process (3/5)

Step 3- Registration Fee Payment:

- After creating all of your teams, pay the registration fee(s):
 - Online using a major credit card through PayPal. A PayPal account is NOT required to make payment. You will receive a payment confirmation email from PayPal, which can be used as a receipt
 - Send a check payable to LTU Robofest to: ***LTU Robofest, 21000 West 10 Mile Rd., Southfield, MI 48075, USA.*** Make sure to **WRITE THE TEAM NUMBER(S) IN THE MEMO LINE OF THE CHECK AND INCLUDE A HARD COPY OF THE INVOICE PAGE FROM THE WEB WHEN YOU MAIL THE CHECK.** Your team registration will be complete once Robofest/LTU receives the check.

Step 4 - Informed Consent, Release and Media Authorization Form:

- If the Consent & Release electronic form has not been submitted through the registration process, (information available in Team Listing menu) print and provide to students' parent or guardian. Get the signed forms and turn in signed form at the event or email directly to the Robofest Office (robofest@ltu.edu)

10. Registration Process (4/5)

Step 5 - Team Photo Uploading:

- Team photos can be included on the team's personalized certificates if desired. Take a team photo and upload it to the coach account on the web. The photo must be uploaded before the registration close date of the qualifying competition. Steps are:
 - Logon to your coach account
 - Click on "Upload team photos" link under Team Management on the left menu bar
 - Select the site and team and upload the file
- Photo Requirements:
 - (1) Standard **landscape photo** file such as jpg, gif or tif (width: height ratio should be 4:3 or 16:9)
 - (2) Smaller file size is recommended
 - (3) Must show all the team members listed
 - (4) Only students should be in the photo
 - (5) Must show the identifiable team ID (established in Registration Step 2) and team name (Downloadable file from the Coach Home Page and hold it when taking the photo *or* edit the photo file to add text)

10. Registration Process (5/5)

Step 6 - Robot Photo Uploading:

Robot Photos can also be included on the team's certificate if desired. Take a photo showing your team robot(s). Upload the photo using the coach's web account before the freeze date of the qualifying competition. The robot photo requirements are the same as in (1), (2), and (5) in Registration **Step 5**

Step 7 – Final Updates:

Coaches must finalize/correct any team information including Project Description (Exhibition, RoboArts and RoboMed) and team video link (if required) before the registration close date (minimum **10** days before the competition date for each qualifying site). Coaches will be notified of close date. Changes cannot be made after registration closes

11. Robofest Assessments or Surveys

- During the registration process, a coach will receive a link to a survey that they should forward to each member of the team to complete.
- The purpose of the assessment (or surveys) is to quantify and analyze students' interest in STEM subjects and improvements in STEM skills through Robofest
- Participants will be assessed before and after the competition to see the level of improvement. Another group of students who did not participate in the competition will act as a control group and take the same pre- and post- assessments. Pre-assessment/survey instructions will be sent to all coaches registered at a site. Coaches will receive post-assessment/survey instructions later in the season
- This assessment is anonymous and results may be published in annual reports as well as a journal on education research

12. Team Volunteers

- Coaches are encouraged to recruit volunteers for technical mentoring, financial sponsorship, transportation, constructing playing fields, preparing food, taking pictures, videotaping, etc.
- The Robofest website will list up to four volunteers per team
- LTU/Robofest has become a Certifying Organization for the President's Volunteer Service Award, or PVSA (www.presidentialserviceawards.gov). All Robofest team and site volunteers are encouraged to track service hours.

13. Team Responsibilities (1/2)

- All teams must observe the check-in time set by the Site Host Organizer
- Materials needed on competition day:
 - Robot(s), spare parts, and extra batteries (or charger)
 - Laptop or other computer **for each team** to solve unknown factors or adjust to the lighting conditions
 - Power strip and power cable
 - *Exhibition Style teams* (Exhibition, RoboArts and RoboMed): poster boards to introduce project and all necessary materials
 - Signed *Consent & Media Release* Forms for team members and team volunteers – *if not completed online or emailed to Robofest Office*
 - Site check-in fee, if your qualifying site charges a check-in fee. Check your site web page

13. Team Responsibilities (2/2)

General Rules during Robofest qualifier, open and championship competitions:

- A. Only official team participants will be allowed in the pit (team table) area
 1. Adults can assist with carrying in team materials, escorted by a proctor, but must immediately leave the pit area
 2. No adults are allowed in the pit (team table) area during the work time for all Game Style qualifying categories
 3. Additional restrictions may apply for specific categories
- B. Students in the pit area are prohibited from using wireless or Bluetooth communication to interact with adults
- C. For In-Person Events:
 1. It is strongly suggested, for security purposes, that the coaches instruct team members to close laptops when stepping away from the table to conduct a practice run
 2. Participants must not interfere with other teams in any way
 3. Be respectful of all teams. Do not make unnecessary noise which might disturb other teams in the pit area
 4. No food or drink is allowed inside the competition area (in-Person only)
 5. No flash photography is allowed inside the competition area

14. Video Submission Qualifier (1/3)

- A. International Game and Exhibition teams in non-Member countries may register for **International_Video_Qualifier** hosted by Robofest Office
- B. US Game and Exhibition Teams may register for **US_Video_Qualifier** hosted by Robofest Office
- C. See Registration Fee Schedule in Section 7
- D. Submission Deadline is 11:59 pm Eastern Time, Monday, April 18, 2022
- E. Adults may help produce the video. Acknowledge everyone involved in the video production in the credits
- F. Coach must upload link (saved to video sharing site) to the video on the team's page
 1. Log on to coach account
 2. Click on "Team Video Links" on the Team Management Menu on the left menu
 3. Select the site and team
 4. Enter the URL for the video (URL can also be entered directly on team edit page)

14. Video Submission Qualifier (2/3)

- G. US teams will be permitted to re-compete through the USA Video Qualifier for a second chance to qualify for Game or Exhibition World Championship Finals. Teams must re-register on the US_Video_Qualifier site with a new Team ID / new Registration Fee
- H. Robofest will ship participation medals and certificates and any award to all Video Qualifier team coaches
- I. Recommended video contents (Refer to Category rules documents for additional category-specific information)
 1. Start with the team ID, Team Name and team member introduction, around 5 seconds for each member

14. Video Submission Qualifier (3/3)

2. Game Teams:
 - a. Demonstrate all required rounds
 - b. Show entire playing field
 - c. Wait for 3 second after run is completed to stop video recording
 - d. The video should not be edited once each round has started
 - e. You do not need to show work time
3. Exhibition Teams:
 - a. Introduce features of the robots, around 5 seconds for each robot
 - b. 4-minute Exhibition Presentation. The video should not be edited once the presentation has started
 - c. 2-minute question and answer session (interview–style). Coaches may prepare and ask questions
4. Rolling credit and/or acknowledgement

15. Judging and Awards

- Detailed judging rules are outlined in each category's rules and/or rubrics
- Every registered team member is eligible to receive a certificate of achievement and participation medal
- Approximately 20% of the total number of teams for each division at each Official Qualifying and Open Competition event will be awarded a Place Award (see Fee Schedule in Section 7 to determine how the team will receive the materials)
- ROWC Award winning teams will receive an official certificate of award for each team member

16.1 Advancing to World Championship - US

GAME TEAMS:

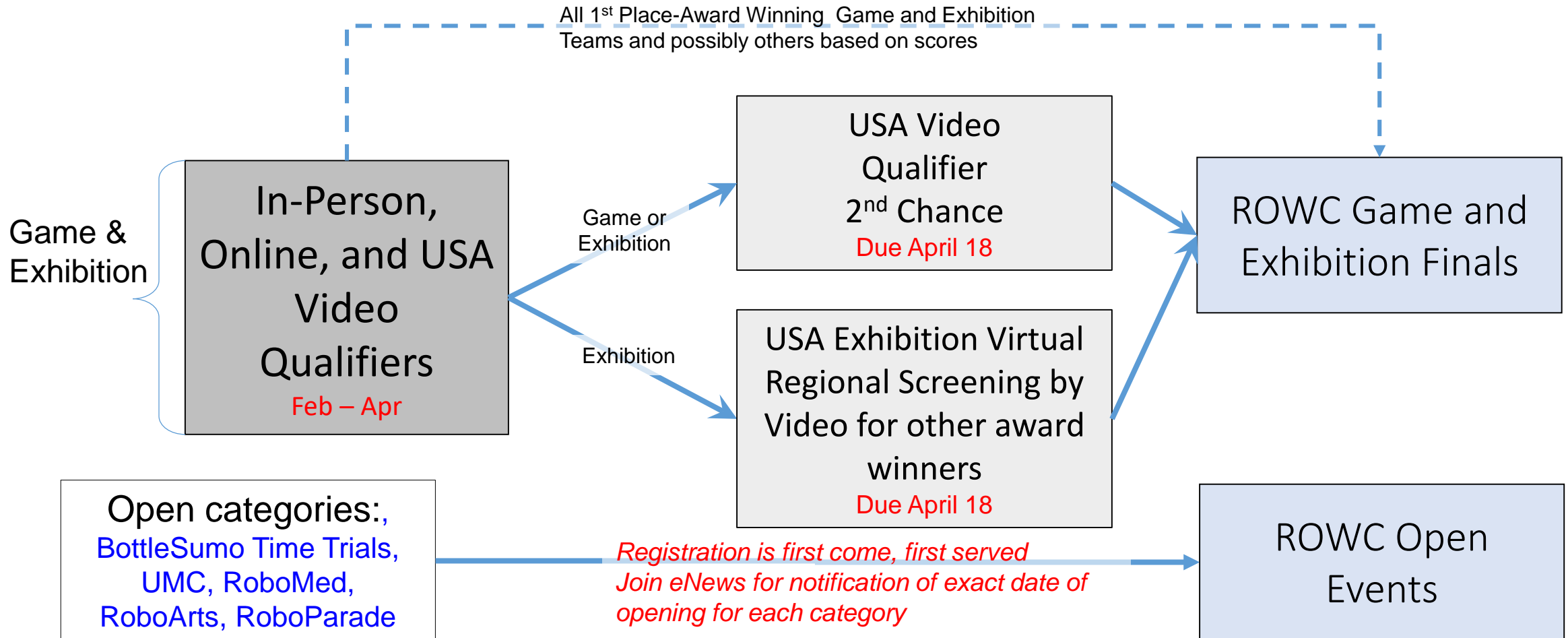
- **All 1st Place award-winning Game teams** from each Qualifying competition will automatically advance to the ROWC Game Finals on either May 13 or 14, 2022
- Other award-winning Game teams may be invited to the ROWC Game Final based on their qualifying score
- Any Game teams who would like a second chance to qualify for the ROWC Finals may register to compete again through the US_Video_Qualifier.
 - Teams must register with a new team number and pay a new registration fee to be eligible to compete
 - Total number of Game teams advancing to the ROWC Game Final will be decided by the team's scores

16.2 Advancing to World Championship - US

EXHIBITION TEAMS:

- **All 1st Place award-winning Exhibition teams** from each Qualifying competition will automatically advance to the ROWC Exhibition Finals on either April 29 or 30, 2022
- Other Award-winning Exhibition teams will be screened through a Virtual Regional and will be invited to the ROWC Exhibition Finals based on their scores
 - Video link must be uploaded to the team's registration (See section 14 for video guidelines)
 - Submission Deadline for the Virtual Regional Video is 11:59 pm Eastern time, Monday April 18, 2022
- Other Exhibition teams who would like a second chance to qualify for ROWC Finals may register to compete again through the US_Video_Qualifier (see section 14)
 - Teams must register with a new team number and pay a new registration fee to be eligible to compete
 - Total number of teams advancing to the ROWC Game Final will be decided by the team's scores

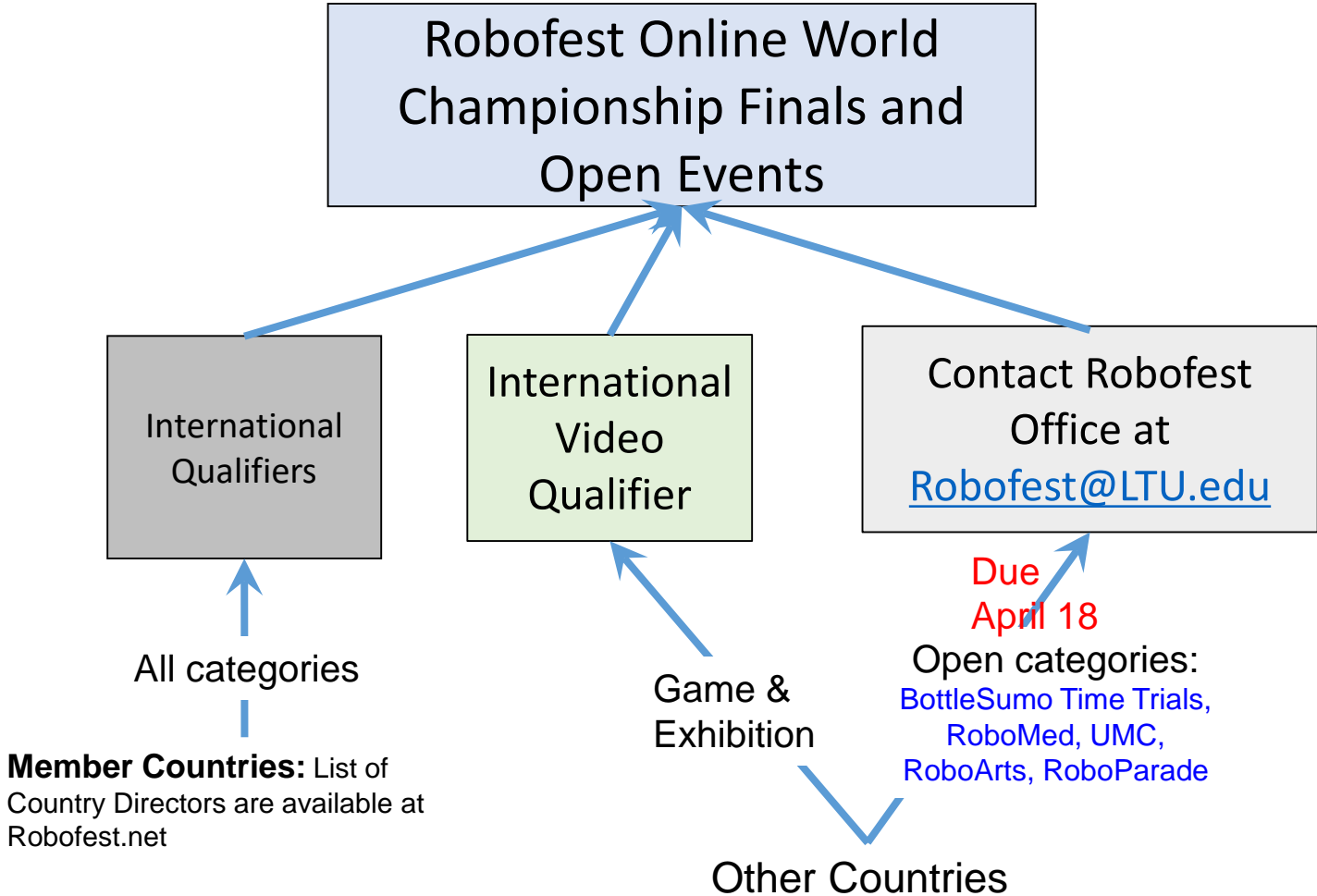
16.3 Advancing to World Championship – US Teams



17.1 Advancing to World Championship – International Teams

- International Game, Exhibition and Open Category teams in Member Countries will compete at Member Country Qualifiers
- List of [International Directors](#) is available at Robofest.net
- Qualified teams will be advanced to the World Championship through the Director
- International Game and Exhibition teams in other countries may compete via International Video Qualifier Submission
- International Open Category teams in other countries can register directly for the ROWC Open Category events as space permits

17.2 Advancing to World Championship – International Teams



18. Robofest Scholarship

Robofest team members who choose to attend Lawrence Technological University may apply for a \$3,000 annual renewable scholarship (total of \$12,000)

- Submit an application, located on the [LTU.edu Scholarship](https://www.ltu.edu/scholarship) website under the “Future Students/Portfolio and Private Scholarships” tab
- Submit a 400-word essay regarding your Robofest experience and your career goals
- Submit a letter of recommendation from one of your Robofest adult coaches or mentors
- Robofest can assist with letter of recommendation
- Submission Deadline: April 1, 2022

19. Certificates, Medals and Awards

- Teams will receive their participant medals and certificates from the Robofest office or Site Host
- Teams at In-Person events will receive their materials and awards at their event
- Teams that participate through Video and Online qualifiers will receive materials, including any awards, after their event
- Teams that compete in Robofest Online World Championship events will receive materials, including any awards, after their event
- Please update the Coach Profile with the correct shipping address

20. Robofest Team Pledge

As a Robofest team member, I understand that the focus of Robofest is about learning through competition.

I will show personal integrity by honoring all Robofest rules, valuing fair competition and respecting judges and all other participants.

I will do my own work. I will NOT receive outside help from coaches, mentors, electronic devices or other sources during competitions and I will strictly follow impounding procedures.

I pledge to make the Online Robofest 2022 great by upholding the Spirit of Robofest.

21. Robofest Coach's Pledge

As a Robofest coach, I have read and agree to abide by the Robofest 2022 general and category specific rules as they exist now and as they may be set forth during the Robofest season.

As a coach, I am responsible for communicating and enforcing the Robofest rules to team members, team volunteers, and others affiliated with my team. I understand that any rule updates, guidelines, additional information, and announcements will be communicated to me, officially via emails, or webpage updates. I am responsible for reading the information and I will relay it to all the people affiliated with my team. If any changes are made to my email account, I will notify Robofest administrators as well as update my coach profile.

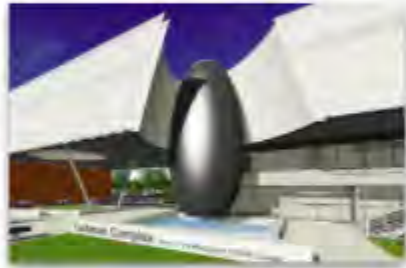
As a Robofest coach, I understand that the students come first. Robofest is about the students learning computer technologies, science, engineering, and mathematics. Everything my team does starts and ends with the principle: the students do all of the work. My team members will do the designing and building of the robot, problem solving and programming. Adults can help them find the answers, but cannot give them the answers or make the decisions in detail.

I intend to uphold and maintain the Robofest spirit.

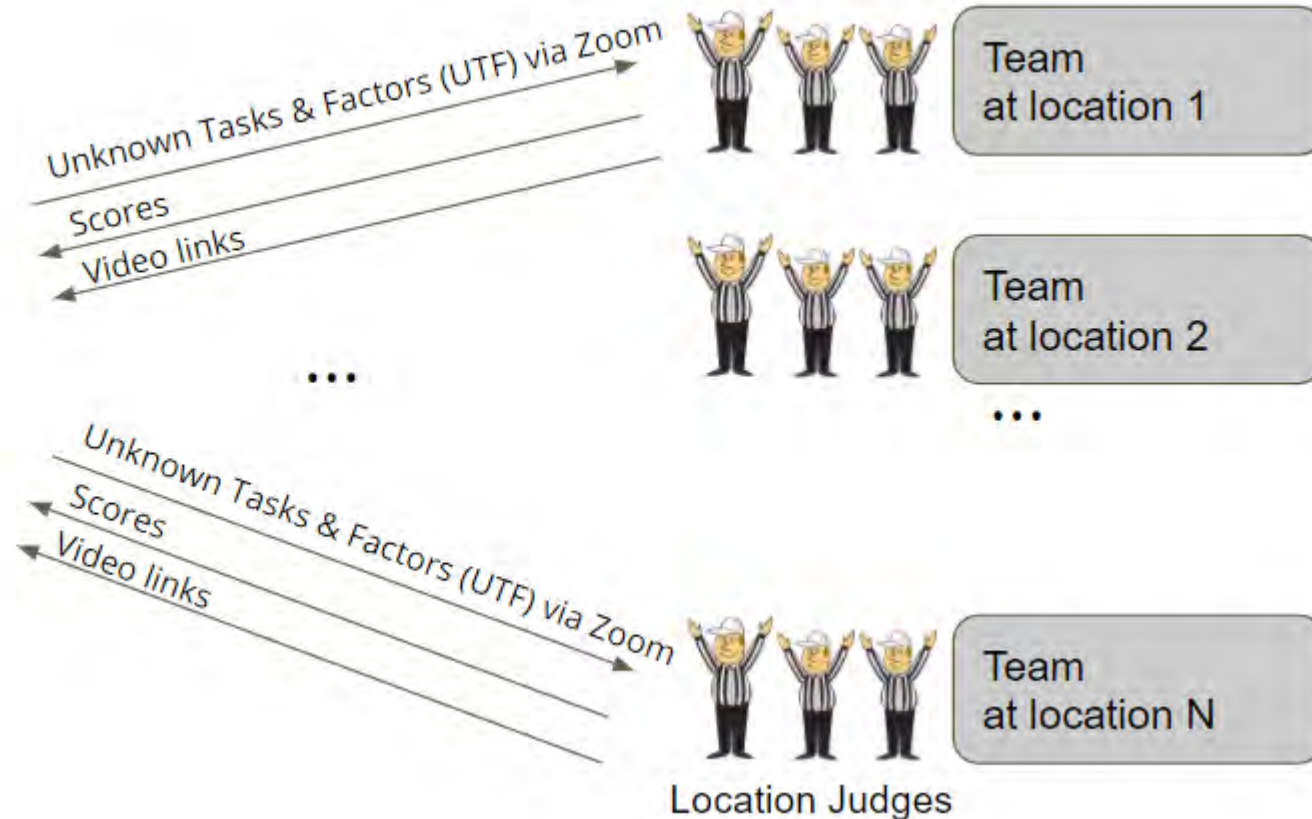
22.1 Online Format Team Setup

- For Online events (Game Qualifiers, ROWC Game Finals, UMC and BottleSumo Time Trial) Each team must be ready to demo & run robots alone at **one** location
- Each team must have a playing field and means for video conferencing (camera & microphone). We will assign **one** Zoom login for each team location
- During the competitions, each team must have its own playing field. We run all robots *at the same time* after unveiling unknown tasks & factors (UTF)
- Each team must have a second device for filming
- Multiple teams at one location are not recommended due to audio echo problem if multiple speakers are used

22.2 Online Format Judging Concept - Game, UMC, BottleSumo Time Trials



Robofest Office at LTU
(Or Local Site Host)



22.2 Online Format Judging Concept - Exhibition, RoboArts, and RoboMed*

*as of this version, Robofest is only hosting Online Exhibition Qualifiers and Finals in 2022. However, other hosts may offer this format for other categories



A panel of Judges - all appointed by Site Host

Code Inspector(s) will recommend points for programming

