



20-21 FRC Season

Oct 10, 2020



Our Future:
Built Better Together

20/21 Season: FRC Options

Game Design Challenge
Innovation Challenge
INFINITE RECHARGESM at Home
Traditional Awards

Game Design Challenge

Game Design Challenge

- Opportunity for teams to design a game that could potentially be played by FIRST Robotics Competition teams.
- Each team will create ONE game design concept.
- Teams must submit either a written document or a slide deck to be eligible.
- Teams are expected to develop as complete a game as possible, while at the same time creating a brief presentation for judges to evaluate.
- Full details, including requirements and restrictions, will be released at Kickoff.
- The winning concept(s), or elements of those concepts, will be considered for official FIRST Robotics Competition games in some future season.

Game Design Challenge

- FIRST will develop and release guided activities at Kickoff to help teams through this process.
- The awards for this challenge are:
 - Designer's Award – Celebrates a team's outstanding success with the Game Design Challenge. The winner of this award should be a strong candidate for other awards in this challenge.
 - Concept Award – Celebrates a team that creates an interesting, realistic game concept.
 - Imagery Award in honor of Jack Kamen – This award celebrates attractiveness in visual aesthetic integration.
 - Creativity Award sponsored by Rockwell Automation – Celebrates creativity that enhances the overall game design concept.
 - Engineering Design Award – Celebrates the team that demonstrates sound engineering in the design process.
 - Rookie Design Award - Celebrates the rookie team's outstanding success in the Game Design Challenge.
- The teams that win the Designer's Award or the Concept Award will move on to be judged by FIRST Robotics Competition game design staff.
- There will be 20 Finalists, which will be invited to interview with FIRST game design staff to present their games and answer questions, and up to 3 teams will be chosen as winners.

FIRST Innovation Challenge

***FIRST* Innovation Challenge**

- Teams will identify a real-world problem or opportunity related to our season theme - *FIRST* GAME CHANGERS - and design a solution, build a business model, and deliver a remote pitch to compete for advancement.
- It culminates in the *Global Innovation Awards*, a multi-day experience where students showcase their innovations, participate in workshops, receive mentorship from experts, and compete for awards.

INFINITE RECHARGE at Home

INFINITE RECHARGE at Home

- A. Teams show off what their robots and drivers can do in skills challenges based on the INFINITE RECHARGE game. Scores are posted, and teams virtually compete against other teams.
- B. Teams illustrate their robot's technical qualities by sharing information with judges remotely in competition for traditional machine awards. Access to your team's INFINITE RECHARGE robot is not required

Awards

Judged Awards

- Teams will participate in an interview about their robot and design process for judged awards
- Teams do not have to participate in the skills challenge component of INFINITE RECHARGE at Home to be eligible for the judged awards.
- The judged awards are:
 - Autonomous Award sponsored by Ford - Celebrates the team that has demonstrated consistent, reliable, high-performance robot operation during autonomously managed actions. Evaluation is based on the robot's ability to sense its surroundings, position itself or onboard mechanisms appropriately, and execute tasks.
 - Excellence in Engineering Award - Celebrates the team that demonstrates a professional approach to the design process.
 - Rookie Game Changer – Celebrates a rookie team's outstanding success this season.
 - Industrial Design Award sponsored by General Motors - Celebrates the team that demonstrates industrial design principles, striking a balance between form, function, and aesthetics.
 - Quality Award - Celebrates machine robustness in concept and fabrication.

Awards

- All FIRST Robotics Competition awards will be judged remotely.
- Most awards for the 2021 season will be associated with either the Game Design Challenge, INFINITE RECHARGE at Home, or the Innovation Challenge.
- Some of the current awards are being modified to align better with these challenges, and we have created new awards.
- Some of the typical awards will NOT be presented for the 2021 Season.
- Several sets of awards will be given out, one for each group of teams.
- Teams that win awards will get trophies shipped to them.
- Teams will be grouped in numbers similar to an event.
- If we have in-person events, Winning and Finalist Alliances will still be recognized and presented trophies at those events.

Traditional Awards

- Teams will be able to compete for the traditional Submitted Awards which include the following:
 - Chairman's Award
 - FIRST Dean's List Award
 - Woodie Flowers Finalists Award
- Teams will be able to submit for these awards using the FIRST Dashboard.
- The process for selecting the submitted awards for 2021 will be similar to the 2020 process, with the addition of an interview for all Chairman's Award submissions.

What's Next?

Registration

- Open the *FIRST* Robotics Competition registration assuming a season experience without in-person game play:
 - Team registration will NOT include an event
 - We will NOT publish an event schedule
- However we will continue to monitor conditions and reevaluate the possibility of adding in-person game play events in January
- Team registration opened on Tuesday, **October 6, 2020**, at Noon ET.
- The payment due date for the 2021 season is Monday, **November 16, 2020** at 5pm ET

Registration

- The registration fee for the 2021 FIRST Robotics Competition season is \$2,000 for returning teams and \$3,000 for new rookie teams.
 - **FIRST Nevada FRC teams will have the 2021 FRC Registration Fee covered as part of the Tesla investment.** If you received a \$1k credit/voucher from HQ last season, you do not need to use this for the registration fee. Contact Leilani at L.Pavlik@FIRSTNevada.org with any questions.
- This fee includes the 2021 Kit of Parts, as well as access to all season challenges.
- If in-person events become possible, those will be made available to registered teams for an additional fee.
- Team registration fees are not refundable once teams receive their Kickoff Kit.

Kick off and Kit of Parts

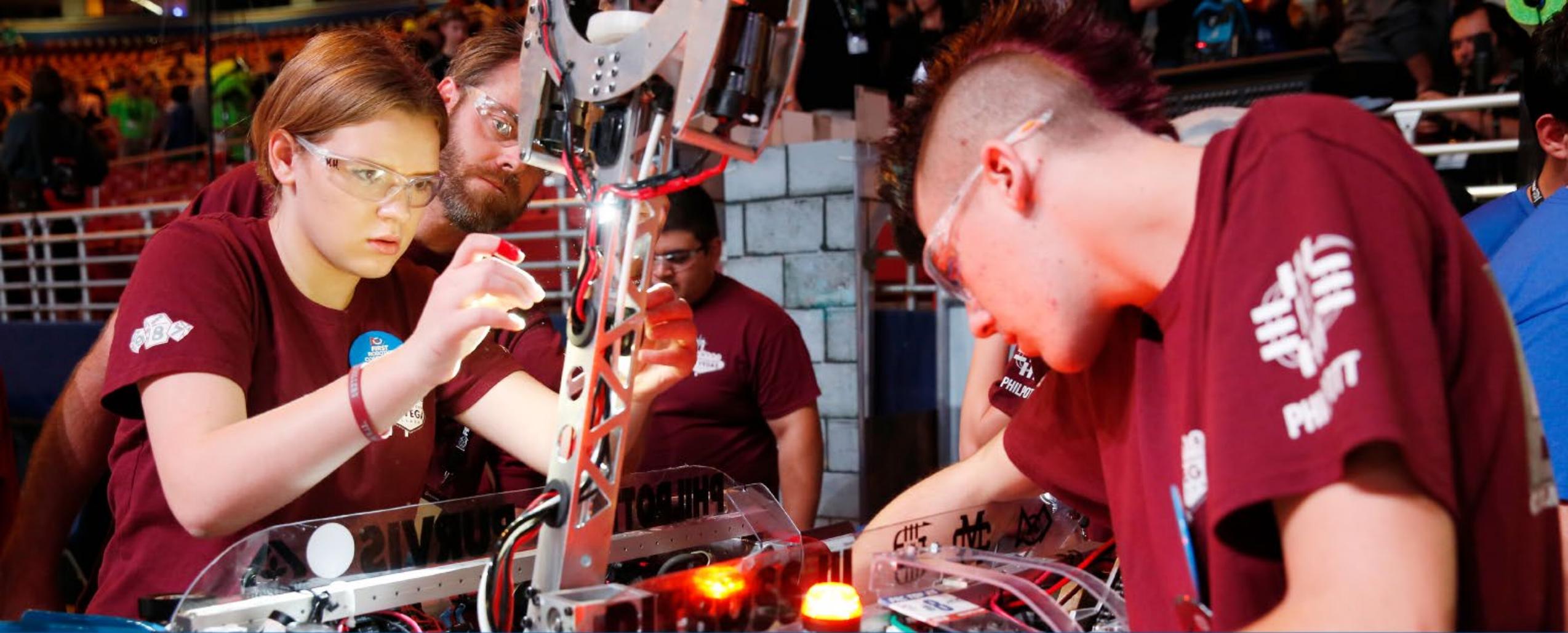
- There will be no official in-person kickoffs this season and no option for teams to sign up for one through the system
- All 2021 paid teams will receive a Kickoff Kit.
 - Rookie teams will receive materials comparable to those distributed to rookie teams in the 2020 Kickoff Kits,
 - The material veteran teams receive will be more limited in scope than previous years. The drive base kit/voucher option will not be available, and much of the Kickoff Kit inventory is being pivoted to be distributed in FIRST Choice.
 - Thanks to the generosity of FedEx, teams will not be responsible for Kickoff Kit shipping costs

FIRST Choice

- FIRST Choice will be available to all paid 2021 teams. Much of the inventory typically distributed in Kickoff Kits is being transitioned to FIRST Choice
- The schedule for FIRST Choice is different from previous seasons. There will be one Priority List round that **opens on Kickoff Day**, at which point teams will know how many credits will be issued, and **closes** at noon (Eastern) on **January 21, 2021**.
- Any team who has not secured 2021 payment by noon ET on January 21, 2021 **will not be eligible for the Priority List** round.
- FIRST Choice will open for “normal” ordering on February 1, 2021 and remain open until June 21, 2021.

Virtual Kit

- With the exception of a few new items, the Virtual Kit, remains the same and available to all paid 2021 teams
- There will be a pre-Kickoff release of items on **November 19**, 2020, and remaining items will be released on Kickoff day.
- If a team is not secured by the release date, any codes needed to redeem the Virtual Kit item will appear in the team's FIRST account once they've paid



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