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Welcome Teams to the 2021 Front Range BEST Robotics Competition!!

This handbook is designed to help you locate important information and give you details about the Front Range BEST 2021 Demo Daze season logistics.

Important website links

BEST National Registry

- **Link:** <https://registry.bestrobotics.org/>
- **All Teachers, Mentors, and Students must register on the National Registry.**
- This is the location you will find ALL of the BEST GAME SPECIFIC rules, kit lists, gamefield build instructions, and score sheets
- This is the location you will submit your Engineering Notebook and other team deliverables.

Front Range BEST website

- Link: <http://www.frbest.org>

BEST Robotics Inc.

- Link: <https://www.bestrobotics.org/site/>

Important Contacts

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George Pandya, Engineering Drawing, Programming, Robot Modeling

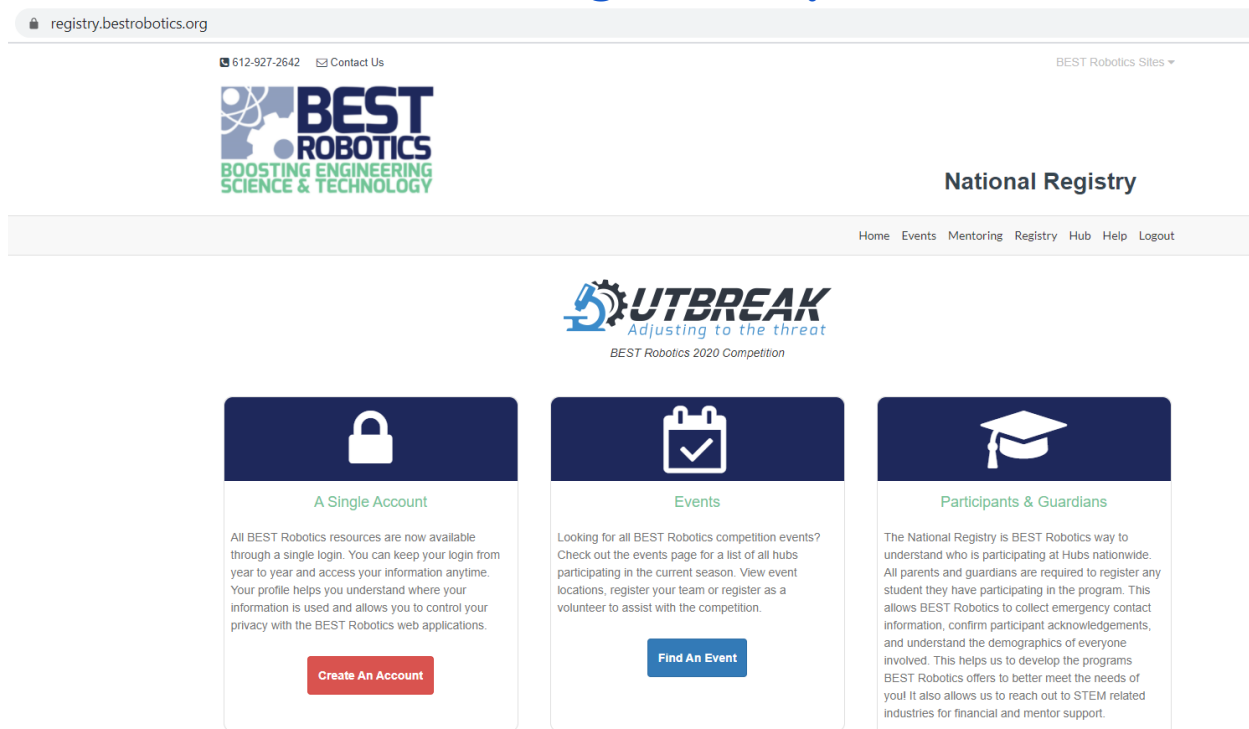
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Front Range BEST Season Overview

FR BEST EVENT	Event Time and Place
Kickoff	Saturday, September 11 <ul style="list-style-type: none"> 9 AM - 12 PM Englewood High School - Gym Game Reveal Training Breakout Sessions Recordings
National Registry <i>*Required by ALL participants*</i>	Saturday, September 11 <ul style="list-style-type: none"> Link: https://registry.bestrobotics.org/
Deadline to sign up for ALL team time slots	Saturday, October 9 <ul style="list-style-type: none"> Sign up through BEST National Registry
Engineering Notebook* Engineering Drawings	Friday, October 22 no later than 5 PM MDT <ul style="list-style-type: none"> Submit in BEST National Registry Team Dashboard
Practice Day	Saturday, October 23 <ul style="list-style-type: none"> Practice Time Trials Critical Design Review Judging* BEST Award Marketing Presentation Judging Robot Modeling Challenge Judging
Game Day	Saturday, November 6 <ul style="list-style-type: none"> Robot Competition BEST Award Exhibit Judging Awards Ceremony Time TBD Open to the public
Awards Ceremony	Saturday, November 6 <ul style="list-style-type: none"> Open to the public
	* - REQUIRED by ALL teams

National Registry ***Required by all Participants***

Please register today!!



The screenshot shows the BEST Robotics National Registry website. At the top, there is a navigation bar with the URL registry.bestrobotics.org, a phone number (612-927-2642), a contact link, and a dropdown menu for BEST Robotics Sites. Below the navigation bar is the BEST Robotics logo with the tagline "BOOSTING ENGINEERING SCIENCE & TECHNOLOGY". The main heading is "National Registry". A secondary navigation bar includes links for Home, Events, Mentoring, Registry, Hub, Help, and Logout. The central content area features the "UTBREAK" logo with the tagline "Adjusting to the threat" and "BEST Robotics 2020 Competition". Below this are three main sections: "A Single Account" (with a padlock icon), "Events" (with a calendar icon), and "Participants & Guardians" (with a graduation cap icon). Each section contains descriptive text and a call-to-action button.

Teacher & Mentor Registration

1. Visit the SITE at <http://registry.bestrobotics.org> and register as a **Teacher**.
2. The first part of the form is for creating your account.
3. Complete the First Name, Last Name, Email Address, Password fields.
4. Click on "Continue Registration"
5. Pick your local hub
6. Choose "I am registering as" Teacher
7. Complete the Teacher Profile by selecting your assigned Team Number from the dropdown list.
8. Choose your gender
9. The School field will be automatically populated.
10. If you are the first teacher from your school to register, you will be asked to complete the School Profile.
11. Accept the two acknowledgements.
12. Click Submit
13. You just completed registration as a teacher.
14. You can now manage your school profile information and manage your team through the Schools Menu item.
See the Schools Menu section below for more details.

Guardian/Student Registration - A parent or guardian (NOT the teacher) should visit the SITE and register as Guardian/Student

1. Visit the SITE at <http://registry.bestrobotics.org> and register as a **Teacher**.
2. Complete the First Name, Last Name, Email Address, Password fields.
3. Click on "Continue Registration"
4. Pick your local hub
5. Choose "I am registering as" Guardian/Student
6. Click the "Add A New Student" button
7. Complete the Student profile (First Last Name, School, and other fields). Be sure to pick the correct school for your student. If you need to start over, click "Remove Student".
8. If you need to add additional students, click "Add A New Student" button again (under the Student Profiles header) and complete step
9. Accept the two Acknowledgements
10. Click "Submit"
11. You just completed registration of your students.
12. You can now manage their profile information and demographics through the Participants Menu item

Team Workflow Page Instructions


1. <https://registry.bestrobotics.org/help>

Registry

- 1.0 Registering for an account
- 1.1 Registry - Students, Mentors, & Volunteers
- 1.2 Registering a Student
- 1.3 Registering as a Mentor
- 1.4 Registering as a Volunteer
- 1.5 Acquiring an API token

Schools & Team Workflow

- 2.0 Team Dashboard - Managing Team Information
- 2.1 Registering a School for the Current Season
- 2.2 Registering as a Secondary Teacher
- 2.3 Working with Team Roster
- 2.4 Working with Team Files
- 3.0 Workflow - The Student's Connection
- 3.1 Working with Driver's Schedule



Team Workflow Dashboard

The TEAM WORKFLOW is a centralized place to find all your team's information and to manage that information throughout the robotics season.

Upcoming Events

The upcoming event panel contains details about your teams upcoming events. This includes Kickoff, Practice Day, and Game Day. Other information may be added by your hub such as training events, etc. Each of the main events contains the start and end time, location and map. To view the map, click the (?) icon. For driving directions, click the blue address. A green status bar below the events indicates the percent of time elapsed from kickoff to game day.

Upcoming Events

Post Season Survey Available 12/3/2019	Kickoff Day 12/13/2019 8:00am - 4:00pm 12/13/2019 8:00am - 4:00pm 12/13/2019 8:00am - 4:00pm 12/13/2019 8:00am - 4:00pm	Practice Day 12/13/2019 8:00am - 4:00pm 12/13/2019 8:00am - 4:00pm 12/13/2019 8:00am - 4:00pm 12/13/2019 8:00am - 4:00pm	Game Day 12/13/2019 8:00am - 4:00pm 12/13/2019 8:00am - 4:00pm 12/13/2019 8:00am - 4:00pm 12/13/2019 8:00am - 4:00pm
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BEST Outbreak Online

Demo Daze ♦ Hub Competition	
REQUIRED ACTIVITIES	OPTIONAL ACTIVITIES & SKILLS
<ul style="list-style-type: none"> ● Robot Critical Design Review ● Engineering Notebook ● Robot Competition 	<ul style="list-style-type: none"> ● BEST Award Marketing Presentation ● BEST Award Exhibit & Team Interviews ● Robot Modeling Challenge ● Engineering Drawings Challenge ● Simulink Design ● Minecraft Challenge ● Video Design Challenge
Red = skills hosted only if enough teams sign up	

Season Events

FR BEST Event	Event Time and Place
Kickoff	Saturday, September 11 <ul style="list-style-type: none"> 9 AM - 12 PM Englewood High School, 3800 S. Logan St.
Deadline to sign up for BEST Award and all Skill Challenges	Saturday, October 9 <ul style="list-style-type: none"> BEST National Registry - Team Workflow
Engineering Notebook *REQUIRED for ALL TEAMS*	Friday, October 22 <ul style="list-style-type: none"> Due at 5 PM MT Submit on BEST National Registry Team Workflow
Practice Day Marketing Presentations Critical Design Review Robot Modeling Engineering Drawings Video Skill challenges	Saturday, October 23 <ul style="list-style-type: none"> 8 AM - 11 AM Robot compliance and robot field practice time slot registration on Team Workflow Englewood HS
Game Day Robot competition & Exhibits Attendance free to the public	Saturday, November 6 <ul style="list-style-type: none"> 8 AM - 3 PM Mandatory robot compliance - time slot Englewood HS
In order to comply with Tri-County Health regulations, masks are mandatory for all event attendees.	

Deadlines and Submission Logistics

Activity/Skill	Deadline/Judging Date	Logistics
Signup for BEST Award and ALL Skills Challenges	Deadline Saturday, October 9	<ul style="list-style-type: none"> Select time on National Registry
Robot Critical Design Review	Judging on Saturday, Oct. 23	<ul style="list-style-type: none"> Select time in National Registry and receive a Google Meet Link by Oct. 10 Judges and Teams use the Meet link
Engineering Notebook	DEADLINE Friday, October 22 5:00pm	<ul style="list-style-type: none"> Submit as deliverable in National Registry
Autonomous Programming Challenge	Challenge: Oct 2 - Nov. 20 Trial: Nov. 21 - Nov. 27	<ul style="list-style-type: none"> Online only
BEST Award Marketing Presentation	Judging on Saturday, Oct. 23	<ul style="list-style-type: none"> Select time in National Registry and receive a Google Meet Link by Oct. 10 Judges and Teams use the Meet link
BEST Award Exhibit & Interview	Judging on Saturday, Nov. 6	<ul style="list-style-type: none"> Select time in National Registry and receive a Google Meet Link by Oct. 10 Judges and Teams use the Meet link
Robot Modeling Challenge*	Judging on Saturday, Oct. 23	<ul style="list-style-type: none"> Select time in National Registry and receive a Google Meet Link by Oct. 10 Judges and Teams use the Meet link
Engineering Drawings Challenge*	Submission Deadline Friday, Oct. 22 5 PM	<ul style="list-style-type: none"> Submit as deliverable in National Registry
Video Design Challenge*	Submission Deadline Friday, Oct. 22 5 PM	<ul style="list-style-type: none"> Submit as deliverable in National Registry
Simulink Design	Submission Deadline November 27	<ul style="list-style-type: none"> Submit here: https://www.bestrobotics.org/simulink_award/form.html
Minecraft Challenge	Hub Round: Oct. 1 - 31 National Round: Nov. 1 - Nov. 30	<ul style="list-style-type: none"> Read the rules for more details.
* = skills hosted only if enough teams sign up		

Kickoff Schedule

September 11, 2021

Event Time	Event	Recording Link
9:00 AM - 10:15 AM	Kickoff Main Presentation - Front Range BEST 2021 Demo Daze	
Breakout Sessions		
10:15 AM - 11:15 AM	BEST Award Competition	
10:15 AM - 11:15 AM	Control Systems Team Training	
10:15 AM - 11:15 AM	Critical Design Review	
10:15 AM - 11:15 AM	Engineering Notebooks	
10:15 AM - 11:15 AM	Robot Kit & Rules	
10:15 AM - 11:15 AM	Simulink Programming	
10:15 AM - 11:15 AM	Teacher & Mentor Tips	
10:15 AM - 11:15 AM	Robot Design Tips	

Kickoff Map



Engineering Notebook

Due no later than 5 PM October 22, 2021

ALL teams must submit a team Engineering Notebook.

The Engineering Notebook is required to compete on Game Day.

- [Click Here for Engineering Notebook Training](#)
- [Click to SUBMIT EN](#)

Practice Day Time Trial Practice Schedule

Saturday, October 23, 2021

[Sign up for Team Slots on the BEST National Registry Team Page](#)

Please log in 15 minutes before your presentation time slot.

Start Time	End Time	School Name

Critical Design Review Schedule

Saturday, October 23, 2021

[Sign up for Team Slots on the BEST National Registry Team Page](#)

Please log in 15 minutes before your presentation time slot.

Start Time	End Time	School Name

Robot Modeling Challenge Schedule

Saturday, October 23, 2021

[Sign up for Team Slots on the BEST National Registry Team Page](#)

Please log in 15 minutes before your presentation time slot.

Start Time	End Time	School Name

BEST Award Team Exhibit & Interviews Schedule

Saturday, November 6, 2021

[Sign up for Team Slots on the BEST National Registry Team Page](#)

Please log in 15 minutes before your presentation time slot.

Start Time	End Time	School Name

Game Day Schedule

November 6, 2020

9 AM - 2 PM

Seeding Schedule TBD

Awards Ceremony
Saturday, November 6, 2021

Time TBD