



2021 Scouting Hackathon

TL;DR

1. Sign up for the hackathon here - forms.gle/UVqgumQczQrA9n7E8 on or before October 22th
2. Create something cool that demonstrates how your team approaches scouting and strategy in the COVID era
3. Email your submission and answers to the question prompts to beachblitz@ocra.io on or before October 30th
4. Attend Beach Blitz or watch the event stream on November 6th and 7th to see all the submissions and winners of the awards!

What is a Scouting Hackathon?

The purpose of the hackathon is to provide students an outlet to practice and show off their skills in scouting and strategy! We want to see creative and thoughtful solutions to these situations in FIRST Robotics.

Off-season events are slowly starting to happen all around us! Events are implementing measures to ensure the safety of teams, including team limits and attendance caps. Additionally, many teams have students who have never seen a competition, which makes experienced scouts tougher to come by. **Your team's goal is to showcase a system or technology that is designed around making scouting and strategy in our COVID world easier.** Outlined below are several sample project ideas.



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Project Ideas

- Mobile scouting system designed to work with minimal people at an event
- Computer Vision system that analyzes match streams
- Match data validation with The Blue Alliance API
- Data model that predicts team performance based on pre-COVID match performance
- Set of paper match plans for a team to follow at an event

This list is not meant to be comprehensive, if you have an idea that you are passionate about, we want you to pursue it!

If you are new and feeling a bit overwhelmed by all the options, feel free to reach out to us at beachblitz@ocra.io or on Chief Delphi/Discord! We would love to help you come up with an idea that you could work on for this Hackathon!

Join us on Discord: <https://discord.gg/sD9SyTd>

Your submission does not need to be software related!



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Participation Rules

1. Teams should be exclusively made up of current FRC students
2. There are no maximum or minimum team sizes
3. A single FRC team can have multiple Scouting Hackathon teams
4. Teams **DO NOT** have to be participating at the in-person FRC Beach Blitz Competition - We want anyone to be able to participate in this Hackathon!
5. Your team must register [here](#) on or before October 16th 2021
6. Your team must provide a submission prior to October 30th 2021
7. A significant portion of your submission should be made during the Hackathon time frame
 - a. You can use premade libraries or tools, but please provide a reference with these items on your submission



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Submission Information

The submission email must include:

- “Scouting Hackathon 2021 Submission <Hackathon Team Name>” in the email subject
- FRC Team number
- A Hackathon group name
- A Google Drive link to the contents of your submission
- Short answers to the following questions in the text of your email
 - *How does your submission help teams at events with attendance capacities?*
 - *How can a novice scouting team use your submission to help lead their team to success?*
 - *What did you learn in the process of making your submission?*

Please send the submission with the subject line “Scouting Hackathon 2021 Submission <Hackathon Team Name>” to beachblitz@ocra.io.

All projects must be submitted by October 30th, 11:59 PM PST to be judged!



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Judging

Teams will be evaluated offline by a panel of experienced judges looking at team submissions.

Judges will look at projects holistically, but will steer their decisions by the following categories:

1. Learning - Did the team try something new? Was the team asking themselves the right questions?
2. Utility - What are the impacts of their submission at events in the COVID era? What does the submission demonstrate to people? How useful is it?
3. Design - How usable is the system by inexperienced scouts? How understandable are the submission items? Was the user experience a key part of the design process? Are there any “wow” factors?
4. Completion - Did the team accomplish what they set out to do?

The following awards will be given out:

- Best Design Award
- Most Useful Award
- Creativity Award

The awards and their descriptions are subject to change.



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Additionally, submissions may be shown throughout the event in person and over the live stream! It will be a great way for other teams to see your work and get inspiration from all team submissions. Awards will be announced at the event on November 6th and 7th.

FAQ

Who can enter this?

Any current FRC student can enter this competition with their teams!

Does my team need to be attending the in-person competition to participate?

No, this is open to all teams!

Do I need scouting experience to take part in this?

Nope! This should be a fun experience for seasoned scouting and strategy students, as well as those who haven't had the opportunity to explore it! This can be used as a great learning experience to introduce people into how exciting strategy can be.



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How much time do we have?

Feel free to start working as soon as you see this document! The cut off for submission is specified above, but feel free to make changes up until the presentation.

Can my team use pre-existing libraries?

Yes you can! We do not want to limit your creativity, but please make sure you discuss what you actually created vs what tools/libraries/APIs your team used during your presentation.

I am not sure what to do!

Don't worry - feel free to reach out to us at beachblitz@ocra.io for any and all questions, including if you need more help or ideas.

**Thank you, and we look forward to
seeing what you all Hack!**