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**FIRST** Chesapeake District  
Richmond Event 2 Day 1  
March 19, 2022

*Richmond Event  
Sponsored by*



# About *FIRST* Chesapeake



**FIRST® Chesapeake** is a 501(c)(3) non-profit organization that represents all *FIRST*® Robotics Competition programs and *FIRST*® Tech Challenge in Maryland, DC, and Virginia. As the District arm of the international organization *FIRST*, we are devoted to helping young people discover and develop a passion for science, technology, engineering, and math (STEM). Founded more than 20 years ago as VirginiaFIRST,® *FIRST* Chesapeake works with other local *FIRST* partners (UMBC, VA-DC FLL) to bring STEM-based leadership enrichment programs to thousands of students, grades K-12, each year.

This year, more than 110 high school teams in the *FIRST* Chesapeake district will compete in the *FIRST* Robotics Competition Challenge, RAPID REACT. These local events and district championship are supported by thousands of volunteers and the generosity of our local, district, and national sponsors. Together, we share the mission to build tomorrow's technology leaders while fostering our future technical workforce in Maryland, DC, and Virginia.

We are very excited about this season and the opportunity to bring the *FIRST* experience to more young people and local communities. If you are interested in learning more about *FIRST* Chesapeake, to become a volunteer, or support our programs, please visit our web site at [www.firstchesapeake.org](http://www.firstchesapeake.org).

# Agenda

## Friday

[Click here for an updated team match schedule.](#)

6:00 PM – 10:00 PM..... Pits Open, Inspection (Teams Only)

## Saturday

7:30AM	Pits and Venue Doors Open
7:30AM - 8:30AM	Team Load-In
7:30AM - 9:30AM	Connection Test and Final Robot Inspection ( <i>self-inspection week before event</i> )
8:30AM - 8:45AM	Safety Captain's Meeting
9:00AM - 9:30AM	Opening Ceremony and Drivers' Meeting
9:30AM - 12:00PM	Qualification Matches
12:00PM - 12:30PM	Lunch
12:30PM - 3:00PM	Qualification Matches
3:00PM - 3:15PM	Pre-Alliance Selection Break
3:15PM - 3:30PM	Alliance Selections (4 x 3-team alliances)
3:30PM - 4:45PM	Playoff Matches (semis and finals)
5:00PM - 5:15PM	Awards Ceremony
5:00PM - 6:00PM	Team Load Out
6:00PM	Pits and Venue Doors Close

*\*Schedule subject to change.*

*All times are in time zone of venue, and are estimated based match flow.*

## Sunday

7:30AM	Pits and Venue Doors Open
7:30AM - 8:30AM	Team Load-In
7:30AM - 9:30AM	Connection Test and Final Robot Inspection ( <i>self-inspection week before event</i> )
8:30AM - 8:45AM	Safety Captain's Meeting
9:00AM - 9:30AM	Opening Ceremony and Drivers' Meeting
9:30AM - 12:00PM	Qualification Matches
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5:00PM - 5:15PM	Awards Ceremony
5:00PM - 6:00PM	Team Load Out
6:00PM	Pits and Venue Doors Close

*\*Schedule subject to change.*

*All times are in time zone of venue, and are estimated based match flow.*

# Welcome

On behalf of the **FIRST Chesapeake District Richmond Event Sponsored by Dominion Energy**, we welcome you to our competition. We are excited to have teams of the best and brightest high school students from Maryland, DC, and Virginia join us to compete in the *FIRST* Robotics Competition challenge, RAPID REACT.

We've been working hard for many months to bring you a high-quality, action-packed event, filled with intense robot competition, *Coopertition*® and *Gracious Professionalism*®. We hope you will cheer on a team, learn something new, and enjoy the event.

To learn more about *FIRST* Chesapeake and how to get involved in *FIRST* programs, visit our website at [www.firstchesapeake.org](http://www.firstchesapeake.org) or email us at [info@firstchesapeake.org](mailto:info@firstchesapeake.org).

# **FIRST<sup>®</sup> Robotics Competition Game**

## **Rapid React Game Explanation**

In RAPID REACT<sup>SM</sup> presented by The Boeing Company, two competing alliances are invited to process cargo for transportation. Each alliance is assigned a cargo color (red or blue, based on alliance affiliation) to process by retrieving their assigned cargo and scoring it into the hub. Human players assist the cargo retrieval efforts from within their terminals. In the final moments of each match, alliance robots race to engage with their hangar to prepare for transport!

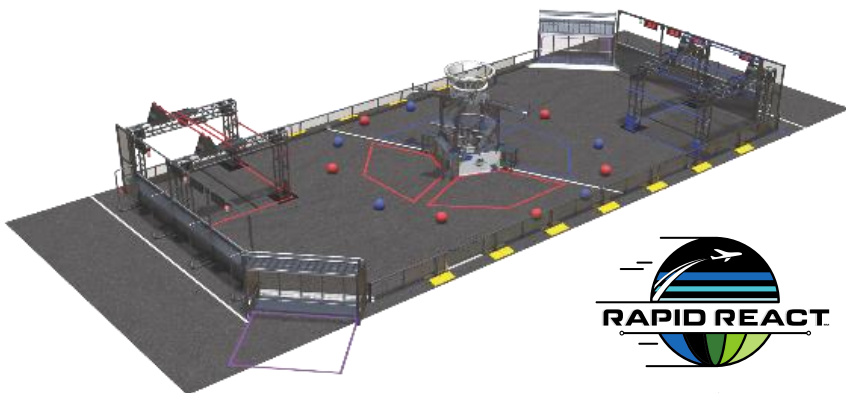
Each match begins with a 15-second autonomous period, during which time alliance robots operate only on pre-programmed instructions to score points by:

1. taxiing from their tarmac and
2. retrieving and scoring their assigned cargo into the hub.

In the final 2 minutes and 15 seconds of the match, drivers take control of the robots and score points by:

1. continuing to retrieve and score their assigned cargo into the hub and
2. engaging with their hangar.

The alliance with the highest score at the end of the match wins!



Click [here](#) to see a video explanation of the game.

# Competition Information

- For a list of competing teams, [click here](#).
- Following [team rankings here](#).
- View the competition live feed on our Twitch Channel at <https://www.twitch.tv/firstchesapeake/>
- To view the *FIRST* Chesapeake COVID 19 Health and Safety guidelines, [click here](#).



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## CAPTAIN OF INNOVATION



## FRIEND OF THE FUTURE



## ROBOT BOOSTER

InSource Solutions • Lockheed Martin Undersea Systems • VCU School of Engineering

## FOUNDATIONS

The Jackson Foundation • Lindner Family Foundation • Memorial Foundation for Children



# FIRST® Chesapeake Impact

## 7,000+

Students grades 7-12 on  
FIRST Chesapeake teams

## 325

Teams participating,  
grades 7-12

## 650+

Mentors/Coaches  
involved in events

*"The FIRST community promotes an environment of entrepreneurship while providing a platform for students like myself to spark real change in our communities. FIRST has been, by far, the most influential experience of my entire life. I walked in as a shy and unconfident ninth-grader and left as a well-rounded leader in my community, currently pursuing a STEM degree."*

— Jessica Aujla, FIRST Chesapeake Alumni Ambassador

## 1,600+

registered alumni in  
Virginia, District of  
Columbia, and Maryland

## 1,400+

Volunteers who  
donated time to events

*"My daughter's initial reaction at a FIRST tournament was that the experience is unlike most sporting events where teams have distinct boundaries and it's all about competition. Gracious Professionalism is a real thing in the FIRST community. It's what cultivates an environment of altruism and mutual respect among participants and keeps my kids wanting to come back to FIRST events year after year."*

— Tom Poole, Board Member, FIRST Chesapeake, FIRST Tech Challenge Mentor Team 16022, and Senior Vice President, Capital One

## 25,000+

event attendees

## 15+

competitive events  
and workshops

## 40% 60%

YOUNG WOMEN

YOUNG MEN

Percentage of young women/young  
men involved with FIRST programs

*"The excitement is what engages younger students to become passionate and interested in the field of STEM... Our team might be small in comparison, but we bring the energy of an entire army to our competitions."*

— Demond Morris, The Prez, Junkyard Dogs,  
FIRST Robotics Competition Team 2106

# Get Involved!



## **Become a Sponsor**

- Enjoy recognition as a community leader
- Receive hospitality benefits at events
- Reach out to more than 1,600 *FIRST* alumni and young professionals
- Help build tomorrow's technology leaders

## **Mentor a Team**

One of the things that sets *FIRST* programs apart is the strength of its mentors. Technical and non-technical volunteers serve as advisors and role models, showing students how to use STEM to solve real world problems, develop project management skills, promote teamwork, and to learn from failures and celebrate success.

## **Volunteer at Events**

*FIRST* Chesapeake events are great opportunities for employee involvement and volunteerism.

For more information, visit [www.firstchesapeake.org/get-involved](http://www.firstchesapeake.org/get-involved) or contact *FIRST* Chesapeake at [info@firstchesapeake.org](mailto:info@firstchesapeake.org).

## Make a Donation

*FIRST* Chesapeake/Virginia *FIRST* is a 20+ year-old 501(c)(3) organization which relies upon the generosity of individuals and donations to run its programs and events. Each year, we must raise more than \$800,000 to support 300+ middle and high school robotics teams and over 20 competitions and workshops. All donations made through [www.firstchesapeake.org](http://www.firstchesapeake.org) remain in Maryland, the District of Columbia, and Virginia and will directly benefit *FIRST* Chesapeake teams and outreach.



[firstchesapeake.org](http://firstchesapeake.org) ■ [firstinspires.org](http://firstinspires.org)

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**FOR INSPIRATION & RECOGNITION OF SCIENCE & TECHNOLOGY**

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