



PRESENTED BY Qualcomm

The "CHARGED UP" logo is displayed on a yellow, tilted rectangular background. The text "CHARGED UP" is in large, bold, black capital letters. A blue and black stylized plug or cable graphic is positioned at the bottom right of the yellow box, with a small "SM" trademark symbol to its right.

**CHARGED UP** SM

PRESENTED BY



IDAHO REGIONAL

# WELCOME

Welcome to the 2023 *FIRST*® Robotics Competition season, CHARGED UP<sup>SM</sup> presented by Haas! Whether you're joining in person or watching virtually, you'll surely **feel the energy and impact of our electrifying sport.**

CHARGED UP is part of our 2022-2023 cross-program season, *FIRST*® ENERGIZE<sup>SM</sup> presented by Qualcomm. During our energy-themed season, which is based on United Nations Sustainable Development Goal #7 (ensuring access to affordable, reliable, sustainable, and modern energy for all), *FIRST* teams are getting **energized to innovate and power their ideas forward.**

To our teams competing this year, congratulations for all that you have achieved so far this season. We hope you'll agree that your pride in your work should extend far beyond what you do on the competition field. Your perseverance, innovative spirit, acts of *Gracious Professionalism*®, and collective passion for sharing STEM **invigorates your local schools and communities.** Meaningful impact comes from acts as simple as lending an extra pair of safety glasses to a teammate (safety *FIRST*!), giving a few minutes of your time to another team to troubleshoot a robot issue, or reaching out to a peer to invite them to join your team. Don't underestimate the **power you have** to make the world a better place.

STEM – and *FIRST* – is for everyone. We encourage everyone involved in *FIRST* to reflect on the impact *FIRST* has had on you and how to

bring even more members of your community into your *FIRST* family, including your peers, parents, teachers, and local professionals and businesses.

The impact of *FIRST* continues to expand far beyond our robotics season. From building community to discovering career paths, the transformative effect of *FIRST* on our participants is felt long after they graduate high school. Our former participants, *FIRST* alumni, continue to have access to education and career discovery opportunities, connections to exclusive scholarships and employers, and a place in the *FIRST* community for life. Some even make a career out of *FIRST* (See "*FIRST* Alum Becomes Senior Program Director").

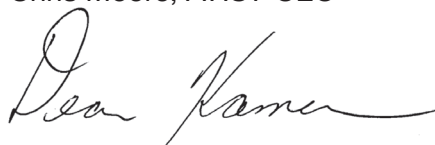
On behalf of everyone here at *FIRST*, we want to send our appreciation to the mentors, parents, volunteers, partners, sponsors, donors, alumni, and other supporters who invest in our youth participants in so many ways. You provide the positive energy that **charges up our future** and inspires our students to make this world a better place. Thank you.

Let's **power forward** and have fun!

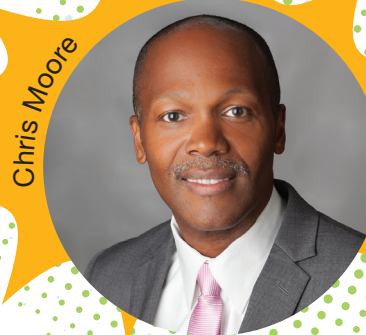
Sincerely,



Chris Moore, *FIRST* CEO



Dean Kamen, *FIRST* Founder



Chris Moore



Dean Kamen

## *FIRST*® Alum Becomes Senior Program Director

This season, the *FIRST* organization was thrilled to promote *FIRST* alum Collin Fultz to the program leadership role of Senior Director of *FIRST* Robotics Competition. Collin began his *FIRST* journey as a student on *FIRST* Robotics Competition Team 234 and later became a *FIRST* Scholarship Program recipient, event volunteer, mentor, and, beginning in 2010, a *FIRST* employee. "The *FIRST* experience has shaped my life — professionally and personally — for more than 20 years," said Collin. "My goal is to make this life-changing experience more accessible to students around the world."

## Welcome to the 2023 *FIRST*® Robotics Competition Idaho Regional!

We are excited to welcome you to the *FIRST*® Robotics Competition Idaho Regional at our new larger location, the beautiful Ford Idaho Center! Thank you for joining us as we are entertained and amazed by CHARGED UP<sup>SM</sup> presented by Haas.

We are excited to host this event with the generous support of the **Idaho STEM Action Center, Laura Moore Cunningham Foundation, Micron Foundation, TEL Boise, and Trailers Plus**. Their generosity, along with many other donors, has enabled us to continue this robotics competition in Idaho. We continue to build relationships and new partnerships with local companies, area “angel” foundations and individuals, state colleges and universities, science and technology centers and other organizations that share our passion to inspire and offer further opportunities for our students. Any sponsorship to our 501(c)3 is welcomed and appreciated at any level. Contact a member of our Regional Planning Committee or visit our website [www.firstidahorobotics.org](http://www.firstidahorobotics.org) for more information.

The *FIRST* Robotics Competition model relies heavily on a working collaboration of high school students with professional and academic partners (mentors) in their communities. The goal is to model a business-like environment to create a product (the robot), which is designed and built to perform the tasks associated with this year’s competition. In addition to using their science, technology, engineering and math skills, this experience teaches students to work as a team, use critical thinking and problem solving, be creative and innovative, manage projects, market themselves and their robot, trouble shoot issues, and manage their time in a real-world type setting. Many of these lessons will benefit the students as they continue their education, and again later as they enter the workforce. This is why the *FIRST* Robotics Competition is a great example of education through inspiration, teamwork and self-discipline.

Throughout the three days of this event you will witness how creative, motivated, and competitive these students are. This event is a celebration and exhibition of the multitude of talents, passions, inspiration and *Cooperation*® of the many intelligent, creative and innovative minds in high schools from 6 Western states, Canada and China. You will have a front row seat to the wonders of the minds and innovations of our future and experience an amazing spectacle of gracious cooperation and professionalism exercised by the participating teams, their mentors and their fans.

The *FIRST*® Idaho Regional Planning Committee extends our sincerest congratulations and thanks to all the participating teams, high schools, teachers, parents, mentors, and sponsors who have made it possible for them to attend. We would also like to extend a big THANK YOU to all the volunteers who have devoted their time and energy in order to make this event happen. We hope that you enjoy yourself and have fun as the teams celebrate the products of their hard work, showcase their talents and participate in a competition full of suspense, teamwork, and *Gracious Professionalism*®. This 2022-2023 season in CHARGED UP, teams are inspired to see the potential of energy storage in a new light as they compete to charge up their communities. Working together we can support boundless innovation and create a society that’s empowered, inspired and hopeful! Thank you for joining us!

Warmest personal regards,

Lisa Lalliss-Skogsberg, *FIRST* Regional Director, *FIRST* Idaho Executive Director

Richard A. Anderson, Board of Directors President, *FIRST* Idaho





In CHARGED UP<sup>SM</sup> presented by Haas, two competing alliances are invited to process game pieces to bring energy to their community. Each alliance brings energy to their community by retrieving their game pieces from substations and scoring it into the grid. Human players provide the game pieces to the robots from the substations. In the final moments of each match, alliance robots race to dock or engage with their charge station!

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

- leaving their community,
- retrieving and scoring game pieces onto the grid,
- docking on or engaging with their charge station.

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

- continuing to retrieve and score their game pieces onto the grid and
- docking on or engaging with their charge station.

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



PRESENTED BY **HAAS**  
Gene Haas Foundation



View the 2023 game animation for the 2023 *FIRST* Robotics Competition game, CHARGED UP presented by Haas.



Scan to View Animation



This is a complete list of *FIRST*® Robotics Competition awards. Please note that different event types (e.g. Regional events, District Competitions, Championship) offer a different set of awards. Not every award is presented at every *FIRST* Robotics Competition event.

**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.

**Creativity Award** *sponsored by Rockwell Automation*

Celebrates creativity that enhances strategy of play and was intentionally designed and not discovered.

**Digital Animation Award** *sponsored by AutomationDirect.com*

Celebrates the art of the digital animation and its close relationship to STEAM (Science, Technology, Engineering, Art, and Mathematics).

**Engineering Inspiration Award**

Celebrates outstanding success in advancing respect and appreciation for engineering within a team's school and community.

**Excellence in Engineering Award**

Celebrates the team that demonstrates a professional approach to the design process.

**Finalist**

Celebrates the Alliance that makes it to the final match of the competition.

**FIRST® Dean's List Award**

Celebrates outstanding student leaders whose passion for and effectiveness at attaining *FIRST* ideals is exemplary.

**FIRST Impact Award**

The most prestigious award at *FIRST*, it honors the team that best represents a model for other teams to emulate and best embodies the purpose and goals of *FIRST*.

**Founder's Award**

Recognizes the organization or individual that has contributed significantly to the growth of *FIRST*.

**Gracious Professionalism® Award**

Celebrates outstanding demonstration of *FIRST* Core Values such as continuous *Gracious Professionalism* working together both on and off the playing field.

**Highest Rookie Seed Award**

Celebrates the highest-seeded rookie team at the conclusion of the qualifying rounds.

**Imagery Award in honor of Jack Kamen**

In honor of Jack Kamen, Dean's father, for his dedication to art and illustration and his devotion to *FIRST*. This award celebrates attractiveness in engineering and outstanding visual aesthetic integration of machine and team appearance.

**Industrial Design Award** *sponsored by General Motors*

Celebrates the team that demonstrates industrial design principles, striking a balance between form, function, and aesthetics.

**Innovation in Control Award**

Celebrates an innovative control system or application of control components – electrical, mechanical, or software – to provide unique machine functions.

**Judges' Award**

During the course of the competition, the judging panel may decide a team's unique efforts, performance, or dynamics merit recognition.

**Quality Award**

Celebrates machine robustness in concept and fabrication.

**Rookie All-Star Award**

Celebrates the rookie team exemplifying a young but strong partnership effort, as well as implementing the mission of *FIRST* to inspire students to learn more about science and technology.

**Rookie Inspiration Award**

Celebrates a rookie team's outstanding success in advancing respect and appreciation for engineering and engineers, both within their school, as well as in their community.

**Safety Animation Award** *sponsored by UL Solutions*

Recognizes the team that submits a short animated film that best promotes the current season's team safety focus.

**Team Spirit Award**

Celebrates extraordinary enthusiasm and spirit through exceptional partnership and teamwork furthering the objectives of *FIRST*.

**Team Sustainability Award**

Celebrates and recognizes a team which has developed a sustainable program in order to define, manage, and achieve the team's ongoing objectives.

**Volunteer of the Year Award**

Presented to an individual, business, or organization that consistently excels in their efforts, with proven results in the areas of impact, leadership, personal commitment, community, and historical contributions.

**Winner**

Celebrates the Alliance that wins the competition.

**Woodie Flowers Finalist Award**

Presented to an outstanding *FIRST* Robotics Competition mentor who best leads, inspires, teaches, and empowers their team using excellent communication skills.



# 2023 SEASON FACTS



PRESENTED BY  Gene Haas Foundation

## STATS (AS OF 01/06/2023)

- 32<sup>nd</sup> Season Game: CHARGED UP<sup>SM</sup> presented by Haas
- 3,304 Teams
  - 3,036 Veteran Teams
  - 268 Rookie Teams
- 82,600+ Youth Team Members
- 26,400+ Mentors/Adult Supporters
- 31 countries:

Australia (40 teams)	Israel (58 teams)
Azerbaijan (1 team)	Japan (3 teams)
Barbados (1 team)	Lesotho (1 team)
Belize (1 team)	Mexico (85 teams)
Brazil (41 teams)	Netherlands (4 teams)
Bulgaria (1 team)	Pakistan (1 team)
Canada (190 teams)	Panama (1 team)
China (10 teams)	Poland (2 teams)
Chinese Taipei (25 teams)	Romania (1 team)
Colombia (4 teams)	Singapore (1 teams)
Croatia (1 team)	Switzerland (1 team)
Czech Republic (1 team)	Turkey (131 teams)
Dominican Republic (3 teams)	United Kingdom (3 teams)
France (3 teams)	USA (2,685 teams)
India (3 teams)	Vietnam (1 team)
Indonesia (1 team)	

## EVENTS

- 134 Live Kickoff events and streaming on *FIRST*tv (01/07/2023)
- 61 Regional Events
- 94 District Events
- 11 District Championships:
  - Chesapeake, Indiana, Israel, Michigan, Mid-Atlantic, New England, North Carolina, Ontario, Pacific Northwest, Peachtree, Texas/New Mexico Districts
- 1 *FIRST* Championship Event: April 19 - 22, 2023

## KIT OF PARTS FACTS

- Items from more than 65 in-kind donors
- Nearly 500 different items distributed via the Kit of Parts system
- More than 72 tons of Kickoff Kit materials shipped all over the world by FedEx (weighs almost as much as the tower of a GE 1.5-megawatt model wind turbine)

## ROBOT FACTS

- Weight: up to approximately 140 lbs. total
- Robots are remotely controlled
- Powered by a 12 volt battery

## FIELD FACTS

- Playing area: 26' W x 54' L
- Robots place cones and cubes onto a grid
- Robots dock or engage on their charge station for bonus points

## ALUMNI

- Participants and alumni of *FIRST* programs gain access to education and career discovery opportunities, connections to exclusive scholarships and employers, and a place in the *FIRST* community for life.
- Visit [firstinspires.org/alumni](https://firstinspires.org/alumni)



PRESENTED BY 



For the latest information on these events, visit [frc-events.firstinspires.org/](https://frc-events.firstinspires.org/)

## Feb 26-28

**ISR District Event #1**  
Ra'anana, Israel

## Feb 28-Mar 3

**Canadian Pacific Regional**  
Victoria, BC

## Mar 01-03

**ISR District Event #2**  
Ra'anana, Israel

## Mar 01-04

**Arkansas Regional**  
Searcy, AR

**Lake Superior Regional**  
Duluth, MN

**Northern Lights Regional**  
Duluth, MN

**Regional Monterrey**  
Monterrey, Mexico

**South Florida Regional**  
West Palm Beach, FL

**Utah Regional**  
West Valley City, UT

## Mar 02-04

**FIT District Waco Event**  
Waco, TX

**FIM District Calvin University Event**  
Grand Rapids, MI

**FIM District Escanaba Event**  
Escanaba, MI

**FIM District Jackson Event**  
Spring Arbor, MI

**FIM District Kettering University Event #1**  
Flint, MI

**FIM District Milford Event**  
Highland, MI

**NE District Granite State Event**  
Salem, NH

**PNW District Clackamas Academy Event**  
Oregon City, OR

**PCH District Albany Event**  
Albany, GA

## Mar 02-05

**Hueneme Port Regional**  
Port Hueneme, CA

## Mar 03-05

**CHS District Blacksburg VA Event**  
Blacksburg, VA

**FIT District Dallas Event**  
Allen, TX

**FMA District Hatboro-Horsham Event**  
Horsham, PA

**FIN District Mishawaka Event**  
Mishawaka, IN

**NE District SE Mass Event**  
Bridgewater, MA

**FNC District UNC Asheville Event**  
Asheville, NC

**ONT District Georgian Event**  
Barrie, ON

**ONT District Newmarket Complex Event**  
Newmarket, ON

**PNW District Glacier Peak Event**  
Snohomish, WA

## Mar 08-11

**Great Northern Regional**  
Grand Forks, ND

**Midwest Regional**  
Chicago, IL

**Oklahoma Regional**  
Shawnee, OK

**St. Louis Regional**  
St. Louis, MO

## Mar 09-11

**FIT District Belton Event**  
Belton, TX

**FIM District Kettering University Event #2**  
Flint, MI

**FIM District Lansing Event**  
Mason, MI

**FIM District St. Joseph Event**  
St. Joseph, MI

**PNW District Wilsonville Event**  
Wilsonville, OR

**PCH District Dalton Event**  
Dalton, GA

## Mar 09-12

**Central Valley Regional**  
Fresno, CA

**Orange County Regional**  
Costa Mesa, CA

**Southern Cross Regional**  
Wollongong, Australia

**Ventura County Regional**  
Port Hueneme, CA

## Mar 10-12

**CHS District Bethesda MD Event**  
Bethesda, MD

**FIT District Channelview Event**  
Channelview, TX

**FMA District Mount Olive Event**  
Flanders, NJ

**FIN District Princeton Event presented by Toyota**  
Princeton, IN

**FIM District Wayne State University Event**  
Detroit, MI

**NE District Rhode Island Event**  
North Scituate, RI

**NE District Waterbury Event**  
Waterbury, CT

**FNC District Johnston County Event**  
Clayton, NC

**PCH District Anderson Event**  
Anderson, SC

## Mar 12-14

**ISR District Event #3**  
Ra'anana, Israel

## Mar 15-17

**ISR District Event #4**  
Ra'anana, Israel

## Mar 15-18

**Arizona East Regional**  
Scottsdale, AZ

**Central Illinois Regional**  
Peoria, IL

**Finger Lakes Regional**  
Rochester, NY

**Heartland Regional**  
Olathe, KS

**Magnolia Regional**  
Laurel, MS

**Miami Valley Regional**  
Cincinnati, OH

**Orlando Regional**  
Orlando, FL

**Regional Puebla**  
Puebla, Mexico

## Mar 16-18

**FIT District Fort Worth Event**  
Fort Worth, TX

**FIT District San Antonio Event**  
San Antonio, TX

**FIM District Belleville Event**  
Belleville, MI

**FIM District Detroit Event**  
Detroit, MI

**FIM District Muskegon Event**  
Muskegon, MI

**FIM District Standish-Sterling Event**  
Standish, MI

**FIM District Traverse City Event**  
Traverse City, MI

**NE District Western NE Event**  
Springfield, MA

**PNW District SunDome Event**  
Yakima, WA

**Brazil Regional**  
Brazilia, Brazil

## Mar 16-19

**Los Angeles Regional**  
El Segundo, CA

**San Francisco Regional**  
San Francisco, CA

## Mar 17-19

**CHS District Alexandria VA Event**  
Alexandria, VA

**CHS District Portsmouth VA Event**  
Portsmouth, VA

**FMA District Robbinsville Event**  
Trenton, NJ

**FMA District Springside Chestnut Hill Academy Event**  
Philadelphia, PA

**NE District North Shore Event**  
Reading, MA

**FNC District Mecklenburg County Event**  
Charlotte, NC

**FNC District Wake County Event**  
Rolesville, NC

**ONT District Humber College Event**  
Toronto, ON

**ONT District Western University Engineering Event**  
London, ON

**PNW District Bonney Lake Event**  
Bonney Lake, WA

**PCH District Gwinnett Event**  
Lawrenceville, GA

For the latest information on these events, visit [frc-events.firstinspires.org/](https://frc-events.firstinspires.org/)

### Mar 20-22

**FIRST Long Island Regional #1**  
Hempstead, NY

### Mar 20-23

**FIRST Israel District Championship**  
Jerusalem, Israel

### Mar 22-25

**Arizona West Regional**  
Glendale, AZ

**Central Missouri Regional**  
Sedalia, MO

**Colorado Regional**  
Denver, CO

**Hawaii Regional**  
Honolulu, HI

**Iowa Regional**  
Cedar Falls, IA

**Regional Laguna**  
Torreon, Mexico

**Wisconsin Regional**  
Milwaukee, WI

### Mar 23-25

**FIT District Houston Event**  
Houston, TX

**FIM District Lakeview Event #1**  
Battle Creek, MI

**FIM District LSSU Event**  
Sault Ste. Marie, MI

**FIM District Midland Event**  
Midland, MI

**FIM District West Michigan Event**  
Allendale, MI

**ONT District University of Waterloo Event**  
Waterloo, ON

**PNW District Oregon State Fairgrounds Event**  
Salem, OR

**PCH District Carrollton Event**  
Carrollton, GA

**PCH District Hartsville Event**  
Hartsville, SC

**FIRST Long Island Regional #2**  
Hempstead, NY

### Mar 23-26

**Minnesota North Star Regional at La Crosse**  
La Crosse, WI

**Sacramento Regional**  
Davis, CA

**San Diego Regional presented by Qualcomm**  
La Jolla, CA

**Tallahassee Regional**  
Tallahassee, FL

### Mar 24-26

**CHS District Glen Allen VA Event**  
Glen Allen, VA

**CHS District Timonium MD Event**  
Timonium, MD

**FMA District Seneca Event**  
Tabernacle, NJ

**FMA District Warren Hills Event**  
Washington, NJ

**FIN District Tippecanoe Event**  
Lafayette, IN

**FIM District Troy Event #1**  
Troy, MI

**NE District Greater Boston Event**  
Revere, MA

**NE District UNH Event**  
Durham, NH

**FNC District UNC Pembroke Event**  
Pembroke, NC

**ONT District North Bay Event**  
North Bay, ON

**PNW District Sammamish Event**  
Bellevue, WA

**Istanbul Regional**  
Sanyer, Turkey

### Mar 25-27

**FIM District Lakeview Event #2**  
Battle Creek, MI

### Mar 27-29

**Bosphorus Regional**  
Sanyer, Turkey

### Mar 29- Apr 01

**Aerospace Valley Regional**  
Lancaster, CA

**Bayou Regional**  
Kenner, LA

**Buckeye Regional**  
Cleveland, OH

**Festival de Robotique Regional**  
Trois-Rivières, QC

**Greater Kansas City Regional**  
Lee's Summit, MO

**Idaho Regional**  
Nampa, ID

**Las Vegas Regional**  
Las Vegas, NV

**Minnesota 10,000 Lakes Regional presented by Medtronic**  
Minneapolis, MN

**Monterey Bay Regional**  
Seaside, CA

**New York Tech Valley Regional**  
Albany, NY

**Seven Rivers Regional**  
La Crosse, WI

**Smoky Mountains Regional**  
Knoxville, TN

### Mar 30-Apr 01

**FIT District Amarillo Event**  
Amarillo, TX

**FIN District Greenwood Event**  
Greenwood, IN

**FIM District Kentwood Event**  
Kentwood, MI

**FIM District Livonia Event**  
Livonia, MI

**FIM District Macomb Community College Event**  
Warren, MI

**FIM District Saline Event**  
Saline, MI

**FIM District Troy Event #2**  
Troy, MI

**ONT District Windsor Essex Great Lakes Event**  
Windsor, ON

**PCH District Macon Event**  
Macon, GA

### Mar 31- Apr 02

**Halic Regional**  
Sanyer, Turkey

**FIT District Space City @ Clear Lake Event**  
League City, TX

**FMA District Bensalem Event**  
Bensalem, PA

**FMA District Montgomery Event**  
Skillman, NJ

**NE District Hartford Event**  
Hartford, CT

**NE District WPI Event**  
Worcester, MA

**FIRST North Carolina District State Championship**  
Greenville, NC

**ONT District McMaster University**  
Hamilton, ON

**PNW District Auburn Event**  
Auburn, WA

### Apr 05-08

**FIRST Chesapeake District Championship**  
Fairfax, VA

**FIRST In Texas District Championship sponsored by Phillips 66**  
Houston, TX

**FIRST Mid-Atlantic District Championship**  
Bethlehem, PA

**New England FIRST District Championship**  
West Springfield, MA

**FIRST Ontario Provincial Championship**  
Hamilton, ON

**Pacific Northwest FIRST District Championship**  
Cheney, WA

**Peachtree District Championship**  
Emerson, GA

**Greater Pittsburgh Regional presented by Argo AI**  
Pittsburgh, PA

**Green Country Regional**  
Tulsa, OK

**New York City Regional**  
New York, NY

**Rocket City Regional**  
Huntsville, AL

**Silicon Valley Regional**  
San Jose, CA

### Apr 06-08

**FIRST Indiana State Championship**  
Anderson, IN

**FIRST in Michigan State Championship**  
University Center, MI

### Apr 19-22

**FIRST Championship**  
Houston, TX

### Abbreviation Key

CHS – FIRST Chesapeake  
FIM – FIRST in Michigan  
FMA – FIRST Mid-Atlantic  
FNC – FIRST North Carolina  
FTA – FIRST in Texas  
FIN – FIRST in Indiana  
NE – New England FIRST  
ONT – FIRST Ontario  
PCH – Peachtree  
PNW – Pacific Northwest  
ISR – FIRST Israel

Team Number	Team School/Organization	Nickname	City	Rookie Year
-------------	--------------------------	----------	------	-------------

## Canada

6364	West Vancouver Secondary School, Rockridge Secondary School & Ecole Sentinel Secondary School	Ten Ton Robotics	West Vancouver	2017
------	---	------------------	----------------	------

## China

8011	Family/Community	Guangzhou Wayi	Guangzhou	2020
8814	Yew Wah International Education School Shanghai Lingang Campus	BLACKHOLE	Shanghai	2022

## USA – California

8	Palo Alto High School	Paly Robotics	Palo Alto	1996
114	Los Altos High School	Eaglestrike	Los Altos	1997
115	Monta Vista High School	MVRT	Cupertino	1998
299	Valkyrie Robotics	Valkyrie Robotics	Cupertino	1998
687	California Academy Math & Sci	The Nerd Herd	Carson	2001
696	Clark Magnet High School	Circuit Breakers	Glendale	2001
1700	Castilleja School	Gatorbotics	Palo Alto	2005
3045	Junipero Serra High School	Gear Gremlins	San Mateo	2009
3256	Valley Christian High School	WarriorBorgs	San Jose	2010
3859	Cosumnes Oaks High School	Wolfpack Robotics	Elk Grove	2011
5430	Pittsburg High School	Pirate Robolution	Pittsburg	2015
6036	Palo Alto Youth Robotics Association	Peninsula Robotics	Palo Alto	2016
7419	Quarry Lane School	QLS Tech Support	Dublin	2019

## USA – Idaho

1566	Bonneville County 4H & 4-H	AMMOKNIGHTS	Idaho Falls	2005
1569	Highland Senior High School, Pocatello High School & Century High School	Haywire Robotics	Pocatello	2005
1891	Bishop Kelly High School	Bullbots	Boise	2006
2122	Treasure Vly Math Science Ctr	Team Tators	Boise	2007
2130	Bonnors Ferry High School	Alpha+	Bonnors Ferry	2007
2594	Nampa High School, Skyview High School & Columbia High School	Naskorpions	Nampa	2008
3562	4-H	LiveWire Robotics 3562	Pocatello	2011
4175	Teton High School	Coded Summit	Driggs	2012
5461	Learning for Life Post #4	Victorian Engineered Robotic Nation or V.E.R.N.	Meridian	2015
5871	Treasure Valley High Schools	Chickadees	Boise	2016
6358	Buhl High School	The Buhlean Operators	Buhl	2017



Team Number	Team School/Organization	Nickname	City	Rookie Year
<b>USA — Idaho continued</b>				
7895	Homedale High School	Trobots	Homedale	2019
8546	Family/Community	\n	Eagle	2021
8550	New Plymouth High School	The Jackson Alliance	New Plymouth	2021
8551	Lewiston Senior High School	RoNex Sponsored by NASA	Lewiston	2021
8756	College of Southern Idaho & Magic Valley Amateur Radio Club Explorer Post 773	Magic Valley Logic Control Sponsored by NASA	Twin Falls	2022
8839	Shoshone Middle High School	Shoshone Robotics	Shoshone	2022
9044	Family/Community	TeraViks	Coeur D Alene	2023
9243	4-H	Maniac Robotics	Orofino	2023
9314	Middleton High School	Middleton Highschool Robotics Team	Middleton	2023
<b>USA — Minnesota</b>				
3134	Cass Lake-Bena High School	The Accelerators	Cass Lake	2010
3275	Cass Lake-Bena High School	The Regulators	Cass Lake	2010
<b>USA — Montana</b>				
3216	Sentinel High School, Big Sky High School & Hellgate High School	Missoula Robotics Team (MRT)	Missoula	2010
<b>USA — Nevada</b>				
5480	Family/Community	FYRE	Reno	2015
<b>USA — Utah</b>				
3006	West High School	Red Rock Robotics	Salt Lake City	2009
3243	Academy for Math Engr & Sci	Amperes	Salt Lake City	2010
3245	Waterford School	Ravens	Sandy	2010
4348	Blue Peak High School	Bonneville Bots	Tooele	2012
4598	Alta High School	ICARUS INNOVATED	Sandy	2013
5933	Judge Memorial Catholic HS	NASA JudgeMent Call	Salt Lake City	2016
6411	Jordan High School	Gravediggers	Sandy	2017
7634	Alta High School	New Hawks	Sandy	2019
<b>USA — Wyoming</b>				
3288	Big Piney High School	Punchers	Big Piney	2010



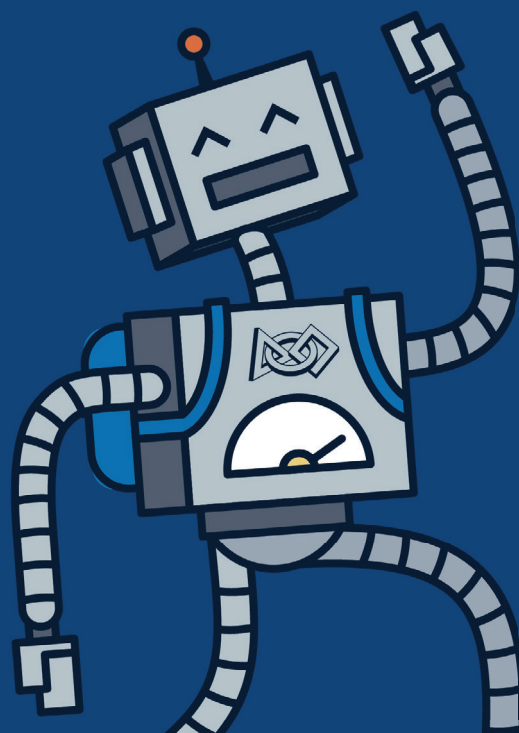
## The 2023 *FIRST*® Championship starts April 19

### *Pack your bolts, bots, and bags!*

*FIRST*® has put together exclusive *FIRST* Championship housing discounts so you and your team can have the time of your lives when you get there. When you book with *FIRST*, you will:

- Stay close to the venue and other teams
- Receive guaranteed low rates at *FIRST*-reviewed hotels
- Enjoy convenient, *FIRST*-only contracted amenities at most hotels including complimentary Wi-Fi, breakfast, and parking
- Gain flexibility to make booking adjustments and pay later
- Get reservation protection and assistance before, during, and after your stay if any unexpected challenges occur

**Book your hotel reservations today!**  
[www.firstchampionship.org](http://www.firstchampionship.org)



## 2023 Idaho Regional Schedule

### Wednesday, March 29

6:00PM-8:00PM 5 Team Reps to Load In and Set Up Pits

### Thursday, March 30

7:45AM 5 Team Reps to Load In  
8:30AM Pits, Machine Shop, Registration and Inspection Open

9:00AM Load-in Ends

9:00AM-11:00AM Driver's Meeting, Field Open for Measurement and Calibration

11:00AM-12:00PM Lunch

12:00PM Ambassador Training

12:00PM-6:30PM Practice Matches

1:00PM-2:15PM "How to talk to a Judge and Scholarship Information"

1:00PM-4:00PM Seminars – West Course

1:45PM-2:30PM "Fundraising, Budgets, and Grants"

2:30PM-3:15PM "How to be a FUN and Cohesive Team"

3:15PM-4:00PM "Scouting and Strategy"

8:00PM Pits and Machine Shop Close

### Friday, March 31

8:00AM Ambassador Training

8:00AM Pits and Machine Shop Open

8:30AM-9:00AM Opening Ceremonies

9:00AM-12:00PM Qualification Matches

9:00AM-4:00PM Scholarship Row

9:00AM-4:00PM VIP – Walk-ins

12:00PM-1:00PM Lunch

1:00PM-5:45PM Qualification Matches

5:45PM-6:15PM Awards Ceremony

~6:30PM\*\* Pits and Machine Shop Close immediately following Awards Ceremony

6:30PM-8:00PM Team Social – East Concourse (Ticket Required)

### Saturday, April 1

8:00AM Ambassadors Gather

8:00AM Pits and Machine Shop Open

8:30AM-9:00AM Opening Ceremonies

9:00AM-12:15PM Qualification Matches

9:00AM-1:00PM *FIRST*® LEGO® League and *FIRST*® Tech Challenge Demonstrations

9:00AM-1:00PM Scholarship Row

9:00AM-4:00PM VIP – Walk-ins

12:15PM-12:30PM Alliance Selections

12:30PM-1:30PM Lunch

1:30PM-4:30PM Playoff Matches & Awards Ceremony

~5:00PM\*\* Pits close 30 minutes following the close of the Closing Ceremony



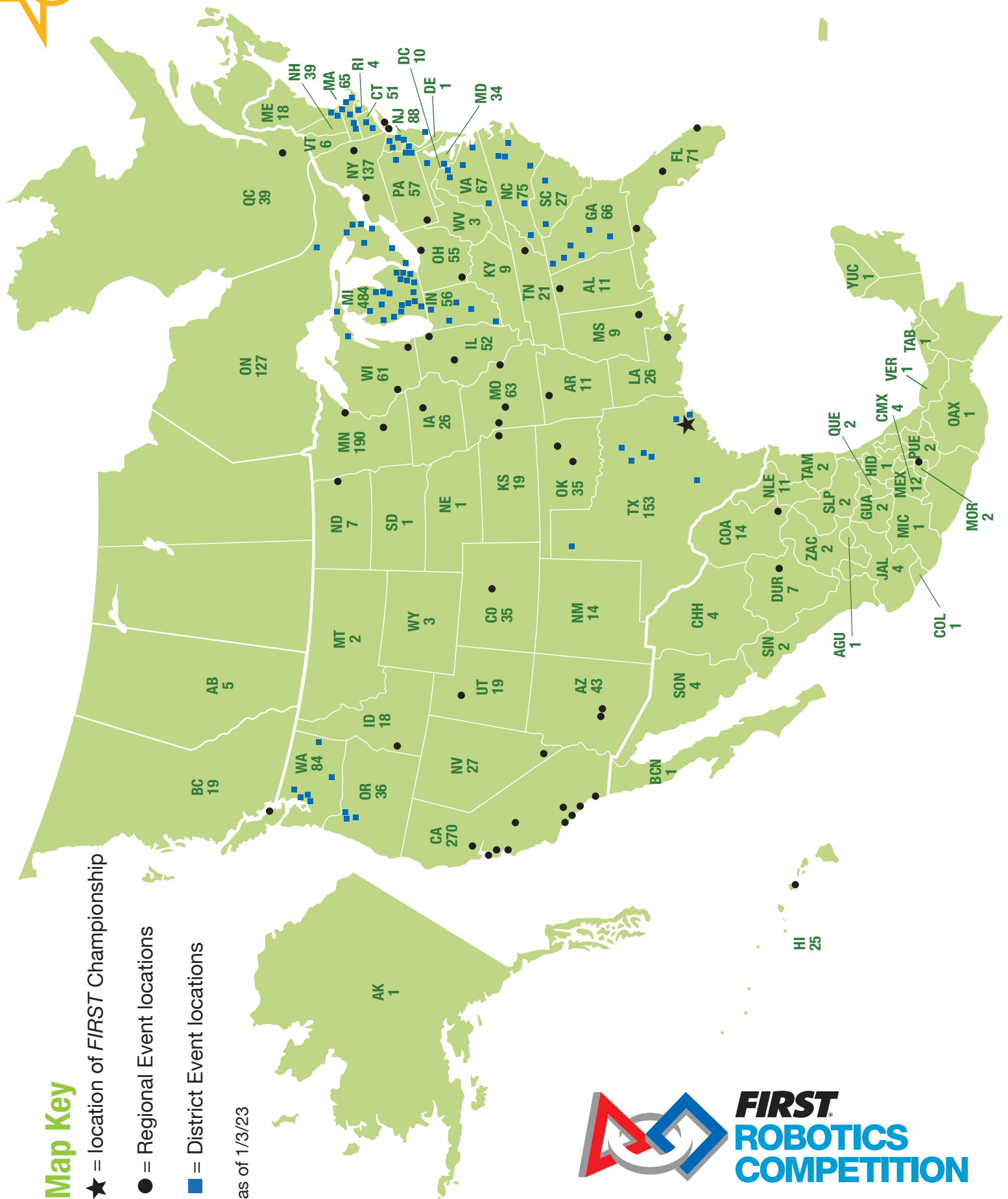
## Map Key

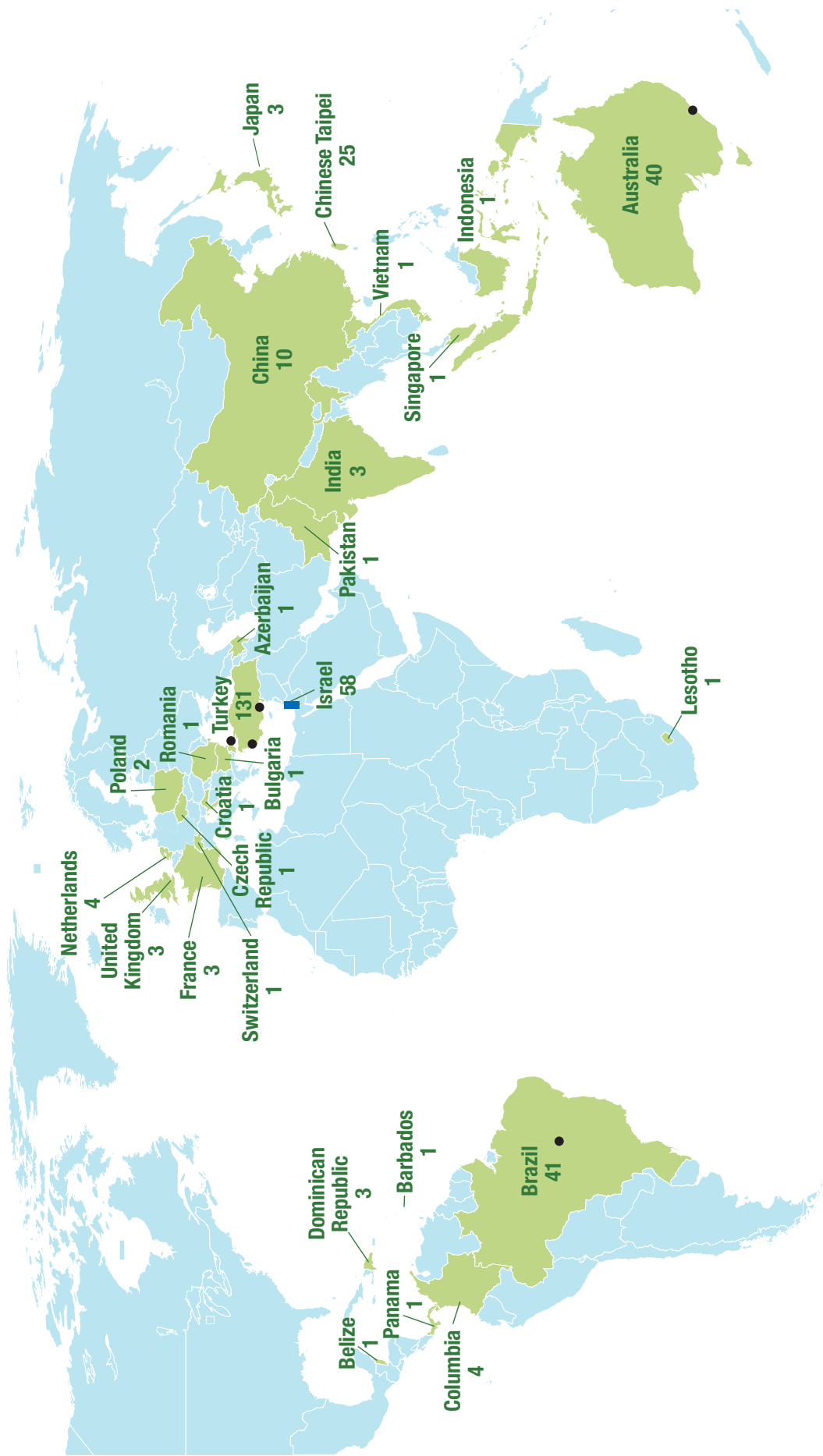
★ = location of FIRST Championship

● = Regional Event locations

■ = District Event locations

as of 1/3/23





# Get Involved!

## Form a Team...

- ☐ Learn from engineering pros.
- ☐ Apply math and science concepts to design and build robots.
- ☐ Gain hands-on experience solving real-world problems.
- ☐ Learn about exciting science and technology careers.
- ☐ Make new friends.

Contact: Lisa Lalliss-Skogsberg (208) 870-6873  
[llallisskogsberg@firstinspires.org](mailto:llallisskogsberg@firstinspires.org)

## Be a Volunteer...

- ☐ Become a mentor or coach.
- ☐ Organize an event or program.
- ☐ Assist at a competition.
- ☐ Make a difference in young lives.

Contact: Lisa Lalliss-Skogsberg (208) 870-6873  
[llallisskogsberg@firstinspires.org](mailto:llallisskogsberg@firstinspires.org)

## Become a Team or Regional Sponsor...

- ☐ Provide financial support, equipment, parts, facilities, internships, or other services.
- ☐ Offer scholarships.
- ☐ Encourage employees to mentor or volunteer.
- ☐ Host an event.
- ☐ Build community goodwill.
- ☐ Inspire employees.
- ☐ Help build a technical workforce.

Contact: Lisa Lalliss-Skogsberg (208) 870-6873  
[llallisskogsberg@firstinspires.org](mailto:llallisskogsberg@firstinspires.org)

## Donate!



- ☐ Help ensure thousands of students have access to unique learning experiences.
- ☐ Support the next generation of technological innovators and problem solvers.
- ☐ Scan this code with your smartphone to launch our secure [online donation page](#) on your browser.



**Thank you for your generosity!**



# Thank You to Our Sponsors

## Idaho Regional

### CO-SPONSOR



### CAPTAINS OF INNOVATION



### FRIENDS OF THE FUTURE

HP

1st Federal

Idaho Community Foundation



Participants and alumni of *FIRST* programs gain access to education and career discovery opportunities, connections to exclusive scholarships and employers, and a place in the *FIRST* community for life.

[www.firstinspires.org/alumni](http://www.firstinspires.org/alumni)

“When you become a *FIRST* alum, you understand just how wide the *FIRST* network reaches and just how willing and excited that network is to help you achieve your goals. I got involved with *FIRST* years ago, and it’s been amazing to see the ways in which *FIRST* and the connections I formed through it have shaped my journey ever since. I graduated from a *FIRST* partner school, Yale University, and now work as a mechanical engineer for Dean Kamen’s R&D company, DEKA, where I get to work every day on really cool, life-changing medical technology.”



**NAOKA GUNAWARDENA**  
*FIRST alum + mechanical engineer*



## FIRST® Volunteers Energizing the Future Since 1992

The Idaho Regional relies on dedicated volunteers and appreciates the contribution of time from everyone who participates. From the expertise of veterans who return year after year, to the enthusiasm of first-timers, volunteers are the critical component, which make our event successful.

### The 2023 Idaho Regional would like to recognize the following Key Volunteers:

**FIRST® Technical Advisor** – Daniel Bravo

**FIRST Technical Advisor Assistant** – Scott Stoller

**Control System Advisor** – Scott Stoller, Andrew Hartman

**Field Supervisor** – Terri Wibbels

**Mistress of Ceremonies** – Arlee Skogsberg

**Game Announcer** – Grace Rosenvall, Trevor Young

**DJ** – PSI

**Head Referee** – Andrew Corrington

**Referee** – Scott Bainbridge, Dale Podolan

**Judge Advisor** – Vicki Burow

**Judge Advisor, Assistant** – Trent Halpin

**Lead Pit Supervisors** – Kathryn Wells, Christine MacMaster and Stephanie Woodman

**Lead Queuer** – Heather Steele

**Lead Robot Inspector** – Dean Klein

**Robot Inspector** – Jack Gillespie, Jon Pannell, Steve Mascaro, David Fullmer, Jack Covert, Luke Schumacher.

**Safety Manager** – Bailey Wolfe

**Scorekeeper/Field Power** – Steve Skogsberg, Andrew Weiler

**Lead Volunteer Registration** – Lorie Race

### Regional Planning Committee:

Lisa Lalliss-Skogsberg – Regional Director

Steve Skogsberg – Regional Planning Chair

Stephanie Woodman – Finance and Budget

Cody Race – Volunteer Coordinator

Vicki Burow – Judge Advisor

Christine MacMaster – Media Relations

Laurie Ovard – Team Social Coordinator

John Skogsberg – Event Assistant to the Regional Director

Dr. Kaitlin Maguire – Board of Directors

Angela Miller – Board of Directors

Dean Klein – Board of Directors

Mark Wibbels – Board of Directors

Richard Anderson – President of the Board of Directors

### Want to join us?

We have opportunities for both technical and non-technical volunteers. Please contact us at [info@idahofrcregional.org](mailto:info@idahofrcregional.org) to get involved.



## FIRST® Alliances

FIRST® shares a fundamental vision with professional organizations, national non-profits, college/university alumni groups and others committed to sustaining key programs that 'ignite young minds'. These national relationships help increase the visibility of FIRST programs and provide valuable resources from state/local chapters. FIRST is pleased to acknowledge the current Alliances who play a key role in our success.

### Alpha Omega Epsilon

*International Engineering/Technical Science Sorority*  
[www.alphaomegaepsilon.org](http://www.alphaomegaepsilon.org)

### American Society for Engineering Education (ASEE)

[www.asee.org](http://www.asee.org)

### Automation Federation / International Society for Automation (ISA)

[www.automationfederation.org](http://www.automationfederation.org) · [www.isa.org](http://www.isa.org)

### Boys and Girls Clubs of America

[www.bgca.org](http://www.bgca.org)

### Electronic Components Industry Association (ECIA Foundation)

<https://www.ecianow.org/foundation>

### Girl Scouts of the USA

[www.girlscouts.org](http://www.girlscouts.org)

### MIT Alumni Association

<https://alum.mit.edu/>

### National 4-H Council

[www.4-H.org](http://www.4-H.org)

### National Center for Women & Information Technology (NCWIT)

[www.ncwit.org](http://www.ncwit.org)

### National Fluid Power Association (NFPA)

[www.nfpa.com](http://www.nfpa.com)

### National Parent Teacher Association (PTA®)

[www.pta.org](http://www.pta.org)

### National Robotics Week

[www.nationalroboticsweek.org](http://www.nationalroboticsweek.org)

### Sigma Phi Delta

*The Premier International Fraternity of Engineers*  
<https://sigmaphidelta.2stayconnected.com>

### SIM Foundation

<https://foundation.simnet.org/>

### Society of Hispanic Professional Engineers (SHPE)

<https://shpe.org>

### Society of Women Engineers (SWE)

[www.swe.org](http://www.swe.org)

### Triangle Fraternity

[www.triangle.org](http://www.triangle.org)

### Yale Science & Engineering Association

[www.ysea.org](http://www.ysea.org)

FIRST is always seeking collaborative relationships with organizations that promote career opportunities in science, technology, engineering and math (STEM) and are looking for significant mentor, coach, and volunteer opportunities for their members. For more information, contact: [alliances@firstinspires.org](mailto:alliances@firstinspires.org)



We are not using  
kids to build robots.  
We are using robots  
to build kids.

— Dean Kamen, Founder, FIRST®

Help FIRST® provide unique, hands-on STEM  
learning experiences to millions of students!



[www.firstinspires.org/donate](http://www.firstinspires.org/donate)



Your contribution is valuable. Thank you for joining  
FIRST as we work together to create a culture where  
science and technology are celebrated!



FOR INSPIRATION & RECOGNITION OF SCIENCE & TECHNOLOGY



## Crown

The 3M Company  
AndyMark, Inc.  
Autodesk, Inc.  
Belden Inc.  
FedEx Corporation  
Gates Corporation  
igus  
NI  
PTC, Inc.  
REV Robotics  
Rockwell Automation, Inc.  
DS Solidworks Corporation  
Vulcan Spring & Mfg. Co.

## Diamond

Digi-Key Electronics  
DriveWorks Ltd.  
Fluke Corporation  
Novelis, Inc.  
Worcester Polytechnic Institute (WPI)

## Gold

Altium  
Automation Direct  
Festo  
MK Battery

## Silver

Anderson Power Products®  
Armabot  
Clippard Instrument Laboratory  
Digial.ai (aka CollabNet)  
Hack Club Bank  
LOCTITE  
Mastercam  
MathWorks  
MaxBotix Inc.  
Molex  
Parker Hannifin Corporation  
Plummer Industries  
RoboPromo  
Ruland Manufacturing  
Siemens Digital Industries Software  
Snap Action, Inc.  
Stratasys  
Tableau Software  
TE Connectivity  
The Thrifty Bot  
UL Solutions

## Bronze

American Button Machines  
CUI Devices  
DevCycle  
Epec Engineered Technologies  
JK Productions  
Johnson Electric  
Kauai Labs, a Studica Company  
Next Gen Robots LLC  
OneIPM, Inc.  
OptiFuse  
Protopasta, Filament by Protoplant Inc  
SolidProfessor  
Southwest Airlines  
Triangle Manufacturing Company  
WestCoast Products  
Wolfram Research  
Xilinx

## Contributor

ECIA - Electronic Components Industry Assn.  
Greengate3D  
HPE Automation  
OnScale  
ScreenSteps  
Show Ready Events





## FIRST®— A Suite of Hands-On, STEM Learning Programs

FIRST® is the world's leading youth-serving nonprofit advancing STEM (science, technology, engineering, and math) education. For over 30 years, students from all walks of life have developed self-confidence in STEM and valuable, real-world skills through FIRST that open pathways to a better future.

Through a suite of team-based robotics challenges and backed by a global network of mentors, coaches, volunteers, alumni, and sponsors, FIRST helps young people discover a passion for STEM and become leaders and innovators in any industry.

Children can start their journey with FIRST® LEGO® League and progress through FIRST® Tech Challenge and FIRST® Robotics Competition, or join any of our three programs based on age or grade level.

GRADES PREK-8 · AGES 4-16\*



**Young Innovators Use Skills and Imagination to Solve Problems as a Team**

FIRST LEGO League introduces STEM to children through fun, exciting hands-on learning. Participants gain real-world problem-solving experiences through a guided, global robotics program, helping today's students and teachers build a better future together. FIRST LEGO League's three age-appropriate divisions inspire youth to experiment and grow their critical thinking, coding, and design skills through hands-on STEM learning and robotics.

\*Ages vary by country

GRADES 7-12 · AGES 12-18



**It's Way More Than Building Robots**

FIRST Tech Challenge students learn to think like engineers. Teams design, build, and program robots to compete in an alliance format against other teams. Robots are built from a reusable platform, powered by Android technology, and can be coded using a variety of levels of Java-based programming.

Participants and alumni have access to career discovery opportunities, networking, and the FIRST Scholarship Program.

GRADES 9-12 · AGES 14-18



**An Exciting Sport Built Around the World of STEM**

FIRST Robotics Competition teams design, program, and build a robot starting with a standard kit of parts and common set of rules to play in a themed head-to-head challenge. Teams also build a brand, develop community partnerships for support, and work to promote STEM in their local community.

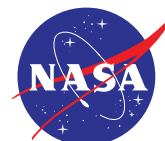
Participants and alumni have access to career discovery opportunities, networking, and the FIRST Scholarship Program.

At the heart of FIRST are its Core Values, which emphasize the contributions of others, friendly sportsmanship, teamwork, learning, and community involvement. These include *Gracious Professionalism*® (respect for others, being a good sport, and sharing what you learn) and *Coopertition*® (competing hard but also helping the other teams).

Learn more about FIRST and our suite of hands-on programs at [firstinspires.org](http://firstinspires.org)



We'd like to thank our current Strategic Partners who continue to help *FIRST*® grow.



And we'd like to thank our Founding Sponsors for their commitment to the vision of *FIRST*.



FOR INSPIRATION & RECOGNITION OF SCIENCE & TECHNOLOGY

200 Bedford Street ■ Manchester, NH 03101 ■ 800.871.8326 ■ [www.firstinspires.org](http://www.firstinspires.org)

FIRST®, the FIRST® logo, FIRST® Robotics Competition, FIRST® Tech Challenge, FIRST ENERGIZE<sup>SM</sup> and CHARGED UP<sup>SM</sup> Gracious Professionalism®, and Coopertition® are trademarks of For Inspiration and Recognition of Science and Technology (FIRST). LEGO® is a registered trademark of the LEGO Group. FIRST® LEGO® League is a jointly held trademark of FIRST and the LEGO Group. All other trademarks are the property of their respective owners. ©2023 FIRST.