



DESTINATION:  
**DEEP  
SPACE**

Presented By  **BOEING**



**ONTARIO DISTRICT  
Georgian College District Event**  
Presented By The Nissan Canada Foundation

# WELCOME!

Welcome to Planet Primus, *FIRST*<sup>®</sup> Robotics Competition teams. We're thrilled you've joined us for this season's game, *DESTINATION: DEEP SPACE* Presented by The Boeing Company.

You should be incredibly proud of what you've accomplished to get here today. You weren't afraid to reach for the stars. Through teamwork and perseverance, you weathered the sandstorms that made accomplishing your goals seem impossible. For every step back, you took two more steps forward and gained life experience only available to those who take on new challenges and are willing to fail. Congratulations!

Helping to fuel your mission is the *FIRST*<sup>®</sup> community – including your mentors, volunteers, sponsors, parents, peers, and alumni. Many of them are here today. Be sure to thank them for all they do to support you.

That you've made it here today doesn't just mean you're developing the technical knowhow to build a robot. It also means that, through *FIRST*, you're exploring your passions, growing your capacity to learn, and building critical workforce skills like teamwork, communication, and problem-solving – tools that will carry you well into your future as *FIRST* alumni.

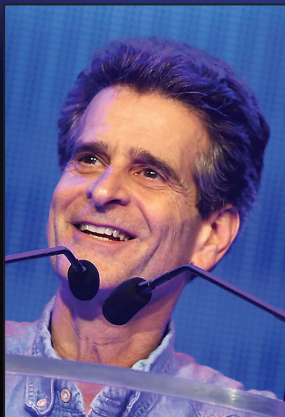
As you consider what your future as a *FIRST* alum looks like, we hope you tap into the vast network of connections *FIRST* has waiting for you. Have conversations with mentors and volunteers about their careers. Apply for an internship with a *FIRST* sponsor; they're looking for *FIRST* students and alumni! Consider more than \$80 million in available scholarships from colleges, universities, and technical programs through the *FIRST* Scholarship Program. Learn more at [firstinspires.org/alumni](http://firstinspires.org/alumni).

In space exploration, humans come together in competition and cooperation under the common goal of moving us forward. As the landmark robotics competition for students, the *FIRST* Robotics Competition has been doing this for three decades.

Today, you are part of a global community that is so much bigger than your team, your region, or even this program. This *FIRST* LAUNCH season, the 30<sup>th</sup> anniversary year of *FIRST*, we're finding out how far we can go when we dream big and work together.

If you haven't already, find out what *FIRST*<sup>®</sup> Tech Challenge, *FIRST*<sup>®</sup> LEGO<sup>®</sup> League, and *FIRST*<sup>®</sup> LEGO<sup>®</sup> League Jr. teams are accomplishing with their space-themed missions. Share ideas, learn from different perspectives, and innovate together. With your collective curiosity and drive, you're the generation who will lead the world into its next chapter – here on Earth and beyond.

Best of luck to all teams. All systems go!



*Dean Kamen*

Dean Kamen  
*FIRST* Founder



*Donald E. Bossi*

Donald E. Bossi  
*FIRST* President



Welcome to the **FIRST®**  
Robotics Competition  
Georgian College  
District Event: Presented  
By The Nissan Canada  
Foundation!

DESTINATION:  
**DEEP  
SPACE**

Presented By 

Your journey to deep space  
starts here.

The moon landing was an unprecedented achievement for humanity. Thousands of people worked together to make it happen. They used all the tools at their disposal to overcome barriers and develop brand new technologies. They pushed through doubts and never gave up.

You may not be building rockets today, but you *will* be using teamwork, problem solving, perseverance, and technology to leap over challenges and reach new heights. To me, that's what innovation is all about. Humans will need those very skills, whether it's to reach deep space, or meet the challenges of work in the future.

Georgian hosts this competition because we believe it's important to support and train the next generation of innovators. That's also why our students are taught not only to use the latest robotics, mechatronics, electronic, and manufacturing technology, but also to be changemakers and creators in their communities.

As you blast into this weekend of competition and set your sights on deep space glory, we invite you to explore our new Peter B. Moore Advanced Technology Centre, connect with our friendly staff, and make the most out of this out-of-this-world experience. And as they said in Cape Canaveral, good luck and Godspeed.

Sincerely,



MaryLynn West-Moynes  
President and CEO, Georgian College





## The 2019 Game | Description and Scoring

**In DESTINATION: DEEP SPACE**, Presented by The Boeing Company, we join two competing alliances collecting samples on planet Primus. Unpredictable terrain and weather patterns make remote robot operation essential to their mission on the planet. With only 2:30 until liftoff, the alliances must gather as many cargo pods as possible and prepare their spaceships before the next sandstorm arrives.

**2:30:** A sandstorm limits driver visibility so robots independently follow pre-programmed instructions or are operated by human drivers via video from their habitat. Alliances score points by:

1. Deploying robots from habitat
2. Preparing rockets and cargo ship with hatch panels
3. Loading cargo pods into their rockets and cargo ship

**2:15:** The sandstorm clears and human operators take control of their robots. Alliances continue to score points by:

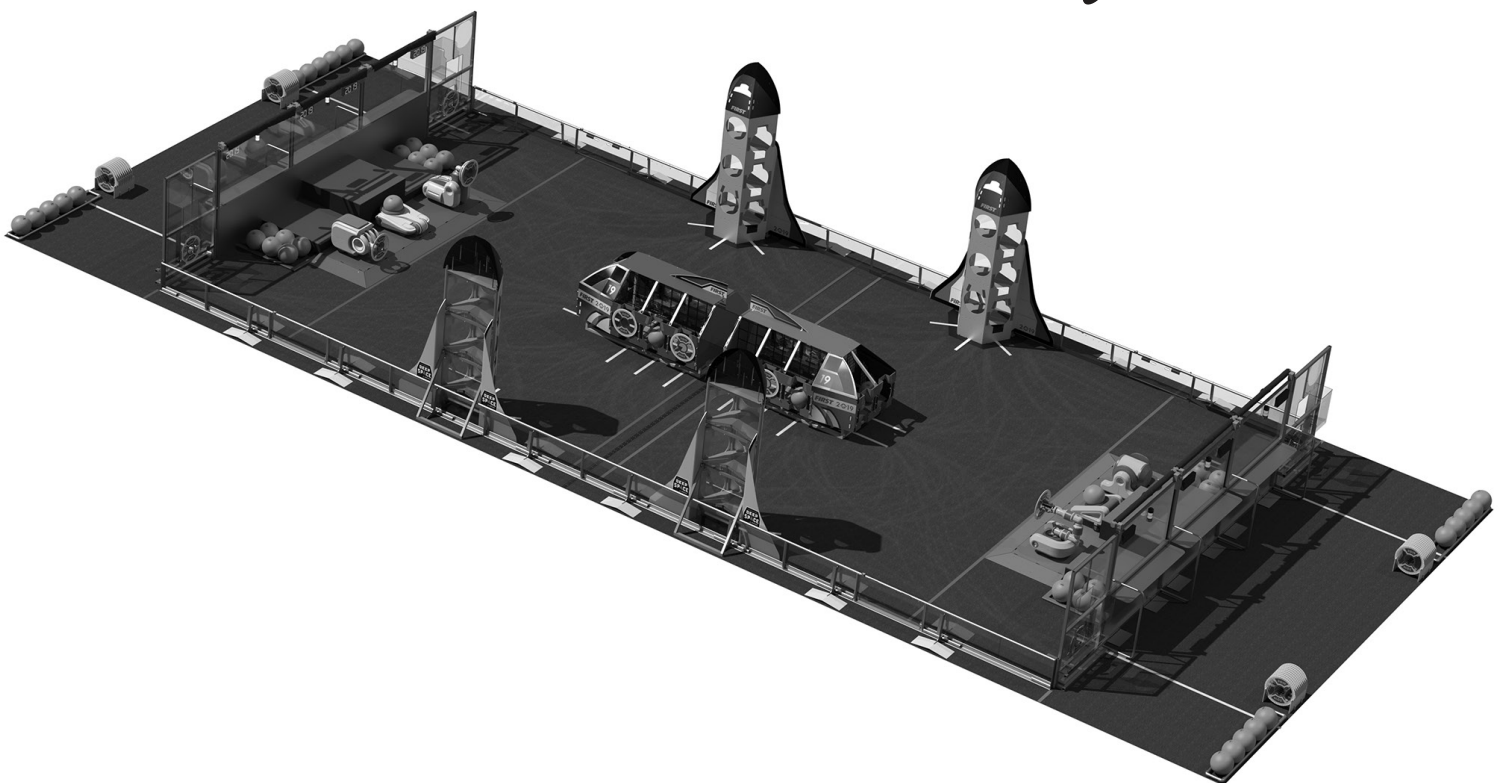
1. Preparing rockets and cargo ship with hatch panels
2. Loading more cargo pods
3. Returning the robot safely to the alliance's habitat

**0:00:** Rocket liftoff

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

# DESTINATION: DEEP SPACE

Presented By





This is a complete list of *FIRST*<sup>®</sup> 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.

**Chairman's 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*.

**Creativity Award** *Sponsored by Xerox*

Celebrates creativity in design, use of component, or strategy of play.

**Digital Animation Award** *Sponsored by Automation Direct*

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.

**Entrepreneurship Award**

*Sponsored by Kleiner Perkins Caufield & Byers*

Celebrates the entrepreneurial spirit by recognizing a team that has developed a comprehensive business plan in order to define, manage, and achieve the team's ongoing objectives.

**Excellence in Engineering Award** *Sponsored by Delphi*

Celebrates an elegant and advantageous machine feature.

**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.

**Founder's Award**

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

***Gracious Professionalism*<sup>®</sup> Award**

*Sponsored by Johnson & Johnson*

Celebrates outstanding demonstration of *FIRST* Core Values such as continuous *Gracious Professionalism*<sup>®</sup> 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 form and function in an efficiently designed machine that effectively addresses the game challenge.

**Industrial Safety Award** *Sponsored by UL*

Celebrates the team that progresses beyond safety fundamentals by using innovative ways to eliminate or protect against hazards.

**Innovation in Control Award**

*Sponsored by Rockwell Automation*

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** *Sponsored by Motorola Solutions Foundation*

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**

*Sponsored by National Instruments*

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*

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

**Team Spirit Award** *Sponsored by FCA Foundation*

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

**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 Mentor in the robotics competition who best leads, inspires, teaches, and empowers their team using excellent communication skills.



**Feb 27 - Mar 2**

**Palmetto Regional**  
Myrtle Beach, SC

**Festival de Robotique a Montreal Regional**  
Montreal, QC

**Orange County Regional**  
Costa Mesa, CA

**Delmar Regional**  
Del Mar, CA

**Feb 28 - Mar 2**

**FIM District Gibraltar Event**  
Gibraltar, MI

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

**FIM District Southfield Event**  
Southfield, MI

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

**March 1 - 3**

**CHS District Haymarket VA Event**  
Haymarket, VA

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

**FIT District Austin Event**  
Austin, TX

**FIT District El Paso Event**  
El Paso, TX

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

**ONT District Durham College Event**  
Oshawa, ON

**PCH District Gainesville Event**  
Gainesville, GA

**PNW District Mount Vernon Event**  
Mount Vernon, WA

**March 1 - 4**

**Istanbul Regional**  
Istanbul, Turkey

**March 4 - 5**

**ISR District Event #1**  
Haifa, Israel

**March 5 - 7**

**Bosphorus Regional**  
Istanbul, Turkey

**March 6 - 7**

**ISR District Event #2**  
Haifa, Israel

**March 6 - 9**

**Arkansas Rock City Regional**  
Little Rock, AR

**Canadian Pacific Regional**  
Victoria, BC

**Central Valley Regional**  
Fresno, CA

**Lake Superior Regional**  
Duluth, MN

**Miami Valley Regional**  
Dayton, OH

**Midwest Regional**  
Chicago, IL

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

**Northern Lights Regional**  
Duluth, MN

**Oklahoma Regional**  
Oklahoma City, OK

**Regional Monterrey**  
Monterrey, Mexico

**San Diego**  
Del Mar, CA

**March 7 - 9**

**FIM District Belleville Event**  
Belleville, MI

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

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

**FIM District Milford Event**  
Milford, MI

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

**FIT District Amarillo Event**  
Amarillo, TX

**PCH District Dalton Event**  
Dalton, GA

**PNW District Wilsonville Event**  
Wilsonville, OR

**March 8-10**

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

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

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

**FMA District Westtown Event**  
West Chester, PA

**FNC District Wake County Event**  
Holly Springs, NC

**IN District St. Joseph Event**  
Mishawaka, IN

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

**NE District Waterbury Event**  
Waterbury, CT

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

**PNW District Auburn Mountainview Event**  
Auburn, WA

**March 9 - 12**

**Southern Cross Regional**  
Sydney Olympic Park, Australia

**March 11 - 12**

**ISR District Event #3**  
Tel Aviv-Yafo, Israel

**March 13 - 14**

**ISR District Event #4**  
Tel Aviv-Yafo, Israel

**March 13 - 16**

**Arizona North Regional**  
Flagstaff, AZ

**Central New York Regional**  
Utica, NY

**Finger Lakes Regional**  
Rochester, NY

**Great Northern Regional**  
Grand Forks, ND

**Heartland Regional**  
Lawrence, KS

**Orlando Regional**  
Orlando, FL

**Regional de la Ciudad de Mexico**  
Ciudad de Mexico, Mexico

**Rocket City Regional**  
Huntsville, AL

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

**March 14 - 16**

**FIM District Center Line Event**  
Center Line, MI

**FIM District Detroit Event**  
Detroit, MI

**FIM District Gull Lake Event**  
Richland, MI

**FIM District Kingsford Event**  
Kingsford, MI

**FIM District Muskegon Event**  
Muskegon, MI

**FIT District Channelview Event**  
Channelview, TX

**FIT District Plano Event**  
Plano, TX

**ONT District Ryerson University Event**  
Toronto, ON

**PCH District Albany Event**  
Albany, GA

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

**PNW District SunDome Event**  
Yakima, WA

**March 14 - 17**

**Los Angeles North Regional**  
Valencia, CA

**San Francisco Regional**  
San Francisco, CA

**March 15 - 17**

**CHS District Owings Mills MD Event**  
Owings Mills, MD

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

**FMA District - Bridgewater-Raritan Event**  
Bridgewater, NJ

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

**FNC District Guilford County Event**  
Gibsonville, NC

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

**NE District Southern NH Event**  
Bedford, NH

**ONT District Georgian College Event**  
Barrie, ON

**South Pacific Regional**  
Sydney Olympic Park, Australia

**March 20 - 23**

**Bayou Regional**  
Kenner, LA

**Central Illinois Regional**  
Peoria, IL

**Colorado Regional**  
Denver, CO

**Greater Kansas City Regional**  
Kansas City, MO

**Greater Pittsburgh Regional**  
California, PA

**Iowa Regional**  
Cedar Falls, IA

**Los Angeles Regional**  
Los Angeles, CA

# FIRST® Dates | 2019 FIRST® Robotics Competition Schedule



## Regional Laguna

Torreón, Mexico

## Sacramento Regional

Davis, CA

## March 21 - 23

### FIM District Alpena Event #1

Alpena, MI

### FIM Jackson Event

Jackson, MI

### FIM District Lincoln Event

Ypsilanti, MI

### FIM District Midland Event

Midland, MI

### FIM District West Michigan Event

Allendale, MI

### ONT District University of Waterloo Event

Waterloo, ON

### PCH District Columbus Event

Columbus, GA

### PNW District West Valley Event

Spokane, WA

## March 21 - 24

### Hudson Valley Regional

Suffern, NY

### Monterey Bay Regional

Seaside, CA

## March 22 - 24

### CHS District Oxon Hill MD Event

Oxon Hill, MD

### FIT District Del Rio Event

Del Rio, TX

### FIT District Greenville Event

Greenville, TX

### FMA District - Seneca Event

Tabernacle, NJ

### FNC District UNC Asheville Event

Asheville, NC

### IN District Tippecanoe Event

Lafayette, IN

### NE District Greater Boston Event

Revere, MA

### NE District Rhode Island Event

Smithfield, RI

### NE District Western NE Event

Springfield, MA

### ONT District York University Event

North York, ON

### PNW District Glacier Peak Event

Snohomish, WA

## March 24 - 27

### SBPLI Long Island Regional #1

Hempstead, NY

## March 27 - 30

### Buckeye Regional

Cleveland, OH

### Hawaii Regional

Honolulu, HI

### Idaho Regional

Nampa, ID

### Las Vegas Regional

Las Vegas, NV

### Minnesota 10,000 Lakes Regional

Minneapolis, MN

### Minnesota North Star Regional

Minneapolis, MN

### SBPLI Long Island Regional #2

Hempstead, NY

### Smoky Mountains Regional

Knoxville, TN

### South Florida Regional

West Palm Beach, FL

### Utah Regional

West Valley City, UT

### Ventura Regional

Ventura, CA

### Wisconsin Regional

Milwaukee, WI

## March 28 - 30

### FIM District Alpena Event #2

Alpena, MI

### FIM District East Kentwood Event

Kentwood, MI

### FIM District Marysville Event

Marysville, MI

### FIM District Shepherd Event

Shepherd, MI

### FIM District Troy Event

Troy, MI

### FIT District Pasadena Event

Pasadena, TX

### IN District Center Grove Event

Greenwood, IN

### ONT District North Bay Event

North Bay, ON

### ONT District Windsor Essex Great Lakes Event

Windsor, ON

### PNW District Lake Oswego Event

Lake Oswego, OR

## March 28 - 31

### Silicon Valley Regional

San Jose, CA

## March 29 - 31

### CHS District Blacksburg VA Event

Blacksburg, VA

## FIT District Dallas Event

Dallas, TX

## FMA District - Bensalem Event

Bensalem, PA

## FMA District - Montgomery Event

Skillman, NJ

## FNC District UNC Pembroke Event

Pembroke, NC

## NE District UNH Event

Durham, NH

## NE District Central Mass Event

Shrewsbury, MA

## PCH District Forsyth Event

Alpharetta, GA

## PNW District Auburn Event

Auburn, WA

## April 2 - 4

### FIRST Israel District Championship

Tel Aviv-Yafo, Israel

## April 3 - 6

### Aerospace Valley Regional

Lancaster, CA

### Arizona West Regional

Phoenix, AZ

### Canadian Rockies Regional

Calgary, AB

### Festival de Robotique a Quebec Regional

Quebec City, QC

### FIRST Mid-Atlantic District Championship

Bethlehem, PA

### FIRST in Texas District Championship

Austin, TX

### Pacific NorthWest FIRST District Championship

Tacoma, WA

### Peachtree District State Championship

Emerson, GA

### Seven Rivers Regional

La Crosse, WI

## April 4 - 6

### FIM District Forest Hills Event

Grand Rapids, MI

### FIM District Lake Superior State University Event

Sault Ste. Marie, MI

### FIM District Lansing Event

Mason, MI

### FIM District Livonia Event

Livonia, MI

### FIM District Traverse City Event

Traverse City, MI

## NE District Pine Tree Event

Lewiston, ME

## April 4 - 7

### Central Missouri Regional

Sedalia, MO

### New York City Regional

New York, NY

## April 5 - 7

### NE District Hartford Event

Hartford, CT

### ONT District McMaster University Event

Hamilton, ON

### ONT District Western University, Western Engineering Event

London, ON

### FIRST North Carolina State Championship

Lillington, NC

## April 10 - 13

### FIRST Chesapeake District Championship

Fairfax, VA

### FIRST Ontario Provincial Championship

Mississauga, ON

### Michigan State Championship

University Center, MI

### New England District Championship

Worcester, MA

## April 11 - 13

### Indiana State Championship

Kokomo, IN

## April 17 - 20

### FIRST Championship Houston

Houston, TX

## April 24 - 27

### FIRST Championship Detroit

Detroit, MI

## Abbreviation Key

CHS – FIRST Chesapeake

FIM – FIRST in Michigan

FMA – FIRST Mid-Atlantic

FNC – FIRST North Carolina

FTA – FIRST in Texas

IN – Indiana FIRST

NE – New England FIRST

ONT – FIRST Ontario

PCH – Peachtree

PNW – Pacific Northwest

ISR – FIRST Israel



## Team Spotlights | 2019 Georgian College District Event

Team Number	Team School/Organization	Nickname	City	Rookie Year
<b>Canada – Ontario</b>				
781	Bruce Power/Power Workers Union & Kinetic Knights Robotics	Kinetic Knights	Kincardine	2002
1305	Canadore College/Nipissing University/PEO North Bay Chapter/Near North District School Board/General Motors Canada/Union Gas & Near North Student Robotics Initiative	Ice Cubed	North Bay	2004
1325	Yamana Gold Inc./General Motors of Canada/Hatch/Pacline Overhead Conveyors/IMAX/Studica/Sable Metal Manufacturing/Agora Manufacturing/McRae Integration/MindShare Workspace/Budget Rent-a-Car/Coremark/Professional Engineers of Ontario/Sheridan College/SkyWatch/Minuteman Press & Family/Community	Inverse Paradox	Mississauga	2004
2013	Molded Plastic Consultants/Inventure Engineering & Machinery Inc/JT Snowmobile/Page Graphics/Clearview Township/Honda of Canada Manufacturing/Stayner Lions Club/MS Parts/Stayner Kinsmen/Prodomax Automation/Advanced Automation/Weld Experts & Cybergnomes Robotics	Cybernomes	Clearview Twp.	2007
2634	Pratt and Whitney Canada/Computer Sciences Corp. & Chaminade College	The Gryphons	North York	2008
3571	Halton District School Board/Karmax (Magna International)/Koojo Custom Powder Coating/Parker Automation & Milton District High School	Mustang Robotics	Milton	2011
4015	GMC & St. Joseph Secondary School	Jag	Mississauga	2012
4476	Novelis /Transformix Engineering/Kingston Community Health Centres/Partner - Pump House Steam Museum (City of Kingston)/Enbridge Gas/Ontario Power Generation/Queen's University/Chubb Ltd./WeJay Machine Products/Our Families & W.A.F.F.L.E.S. Community Robotics	W.A.F.F.L.E.S	Kingston	2013
4688	Toldo Foundation/Centerline Windsor Ltd./St. Anne's Catholic School Advisory Council/A LIFT & St. Anne's Catholic High School	Saints Bot	Belle River	2013
4903	Fiat Chrysler Automobiles/General Motors of Canada/Valiant/Centerline (Windsor) Limited/Tregaskiss/Dakkota/Radix/St. Clair College/University of Windsor/Advanced Business Solutions/Sandra Chappus - Realtor/Lazaridis Family Foundation/Siemens/Brave Control Solutions/Zion Robotics and Controls/Reko Manufacturing Group/Build A Mold/Electrozad Supply/TRQSS & Vincent Massey Secondary School	Mustangs	Windsor	2014
4932	FCA Foundation/Rotary Club of Leamington /Union Gas/St. Clair College/Liquid Capital Midwest Corporation/J. Morin Trenching/Insight Advantage/Southpoint Industrial Supply (SIS) & Cardinal Carter Catholic Secondary School	Cougar Robotics	Leamington	2014
4938	Chrysler Fiat/St. Clair College/College Boreal/Max Die Group & École Secondaire Michel-Gratton	Falcons	Windsor	2014
6331	Microsoft Canada/TD Canada Trust/Matt McShane - Valenté Realty/Argosy Foundation/Lowes Canada & École Secondaire L'Essor	Sabotage	Windsor	2017
6336	Junior Optimist International	Javawockies	Springwater	2017
6461	Nuclear Waste Management Organization/South Bruce Community Liaison Committee /FIRST Robotics Canada/McGavin Farm Equipment/Ideal Supply/D and D Automation & F.E. Madill Secondary School	Iron Stallions	Wingham	2017
6481	Argosy Foundation Rookie Grant/FIRST Canada Rookie Grant/Thames Valley District School Board/Lions Club of Parkhill/BDM Millwrights/Mitchell's Home Building Centre/Next Era Energy/Municipality of North Middlesex & North Middlesex District High School	Dues Ex Machina	Parkhill	2017
6544	Centerline Windsor Ltd/PTC/Tristar & Family/Community	A-Team Robotics	Amherstburg	2017
7200	FIRST Canada & Banting Memorial High School	Banting Memorial High School	Alliston	2018
7664	Hammond Power Solutions/Eclipse Automation/The Co Operators/TD Canada Trust/Toyota/Agriculex & Bishop Macdonell Catholic High School	Big Celtic 6	Guelph	2019
7757	Hobart Owen Sound/Bruce-Grey Catholic District School Board/FIRST Canada/Argosy Canada & St. Mary's High School	Atomic Dishwashers	Owen Sound	2019

## Team Spotlights | 2019 Georgian College District Event

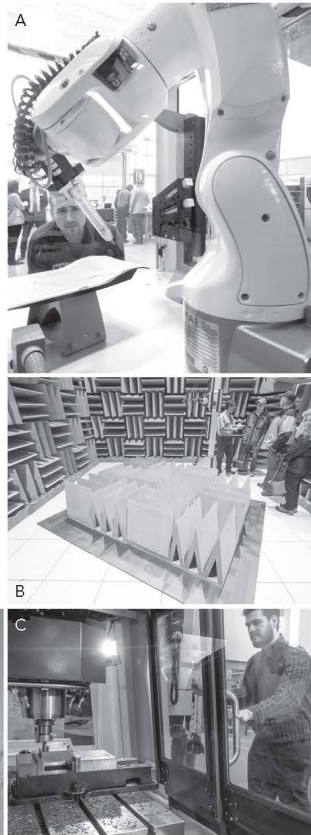


Team Number	Team School/Organization	Nickname	City	Rookie Year
<b>Canada – Ontario</b>				
7806	Kapuskasing District High School	KHDS Kolts	Kapuskasing	2019
7902	FIRST Canada/Sable Metal Fabrication Inc./Loong Family/Deepali Raizada/GFL Infrastructure Group Inc./Falcon International /Kamboj Family/StickerGiant & Family/Community	Markham FireBirds	Markham	2019
<b>USA – Michigan</b>				
216	Hepfer & Associates & Grandville High School	More RoboDawgs	Grandville	1999
244	MH Labs & Grandville High School	RoboDawgs 3D	Grandville	1999
288	MH Labs/Hepfer & Associates & Grandville High School	The RoboDawgs	Grandville	1999
2771	General Motors Foundation/Robert Bosch/Ford Motor Company/AutoCam/ Professional Fabracators/PTC/Rockwell Automation/CompuDie/Beaver Research/ RoMan Manufacturing/Code Red Robotics/BAE Land and Armament Systems/ Kent Intermediate School District/Kent County/Byron Center High School & Code Red Robotics	Code Red Robotics the Stray Dogs	Grandville	2009
3655	Dart Container/Dakkota Integrated Systems/LOC Performance/Central Process Engineering/Gestamp/Block Imaging/Spartan Motor/Mason Optimist/Mason Public Schools Foundation/The Dart Foundation/MSUFUCU/Mason ACE Hardware/ Wesco Distribution & Mason High School	Tractor Technicians	Mason	2011



# EXPERIENCE INNOVATION at Ontario's #1 CO-OP COLLEGE

- A | Put your lessons into practice in state-of-the-art labs.
- B | Georgian is home to one of Central Ontario's only anechoic chambers.
- C | Georgian's maker space includes a 3-D printer, laser cutter, and more.
- D | Join Georgian's Electric Vehicle Club or Robotics Club.



## LAKEHEAD-GEORGIAN DEGREE-DIPLOMAS

Earn your university degree and college diploma in just four years.

- Electrical Engineering / Electrical Engineering Technology – co-op
- Environmental Sustainability / Environmental Technician
- Applied Life Sciences / Biotechnology
- Computer Science / Computer Programmer – co-op

## GEORGIAN DEGREES

Become the doer, thinker, and leader employers are looking for.

- Honours Bachelor of Business Administration (Automotive Management) – co-op
- Honours Bachelor of Business Administration (Golf Management) – co-op
- Honours Bachelor of Business Administration (Management and Leadership) – co-op
- Honours Bachelor of Interior Design – co-op
- Honours Bachelor of Police Studies – co-op
- Bachelor of Science in Nursing (Collaborative Program with York University) – clinical placements



# District Event Judges

## Judge Advisor

**Tom Lee**  
*Chief Education Officer, Quanser*

## Judges

**Doug Austin**  
*Manager of Engineering, Town of New Tecumseth (Alliston)*

**Harold de Boer**  
*Professor, Georgian College*

**Ray Clements**

**Chris Dyck**  
*Professor, Georgian College*

**Robert Hughson**

**Catherine Losier**  
*Executive Assistant, Georgian College*

**John McCluskey**  
*Professor, Georgian College*

**Bob McEwan**  
*Professor, Georgian College*

**Cole Morrison**  
*Project Manager, Innovation Automation*

**Katia Papadimitos**  
*Kuka Robotics Canada*

**Stephen Payne**  
*Napoleon*

**Dave Sadler**  
*Honda Canada Manufacturing - Retired*

**Doug Shirrif**  
*Technologist, Engineering Department, Georgian College*

**Barb Shopland**  
*President, 2gener8 Solutions Inc.*

**Robert Skinner**  
*Professor, Georgian College*

**Alec Story**  
*Advanced Automation, Georgian College*

**Mike Sutton**  
*Innovative Automation*

**Steve Taylor**  
*Honda Canada Manufacturing*

**Jeremy Town**  
*Technical Specialist, Bosch Security Systems*



# 2019 Georgian College District Event SCHEDULE

## Friday, March 15

3:00PM-4:30PM	Team Load-In (5 Team Reps)
4:30PM	Pits Open, Inspections
5:30PM-8:00PM	Filler Line Practice Matches
9:00PM	Pits Close

## Saturday, March 16

8:00AM	Pits Open, Inspections
8:30AM	Drivers Meeting
9:15AM-10:45AM	Practice Rounds
11:00AM	Opening Ceremonies
11:30AM-1:30PM	Qualification Matches
1:30PM-2:30PM	Lunch
2:30PM-7:00PM*	Qualification Matches
8:00PM	Pits Close

## Sunday, March 17

8:00AM	Pits Open
9:00AM-9:30AM	Opening Ceremonies
9:30AM-12:45PM*	Qualification Matches
1:00PM-1:30PM	Alliance Selections
1:30PM-2:30PM	Lunch
2:30PM-5:30PM	Playoff/Elimination Matches
5:30PM**-7:00PM	Awards/Closing Ceremonies
7:30PM***	Pits Close

\*Based on a 40-team event. Events with fewer teams may complete matches earlier.

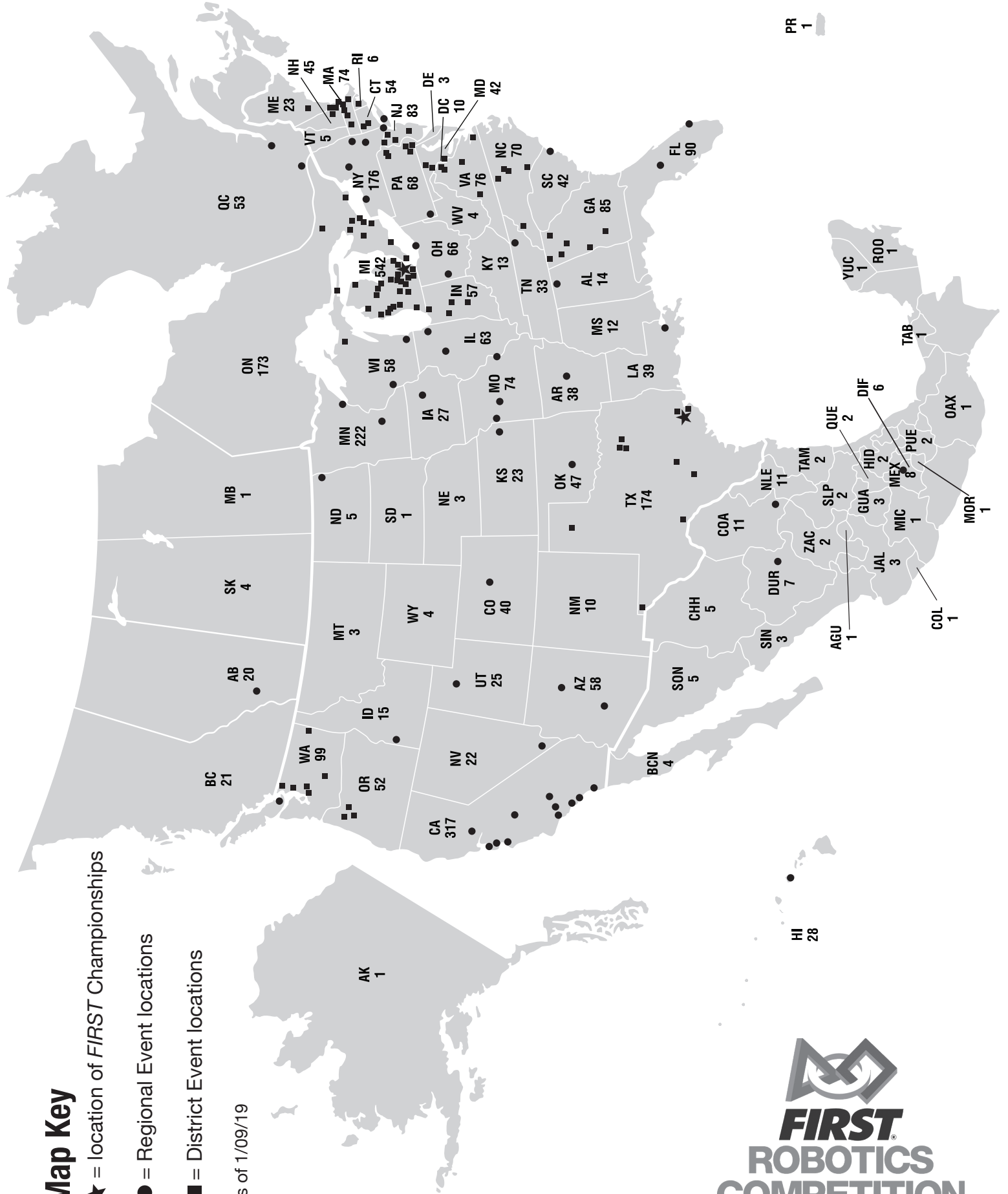
\*\*Closing Ceremonies to occur immediately following end of Playoff Matches.

\*\*\*Teams requesting to leave before 7:30PM should connect with Pit Administration for instructions.

**Schedule subject to change. All times are estimated based on flow of rounds. See Pit Administration table for updated times.**



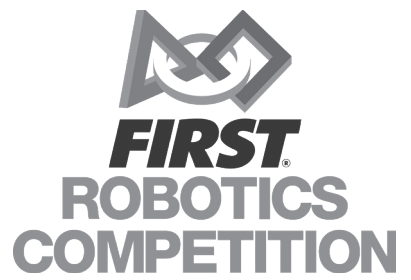
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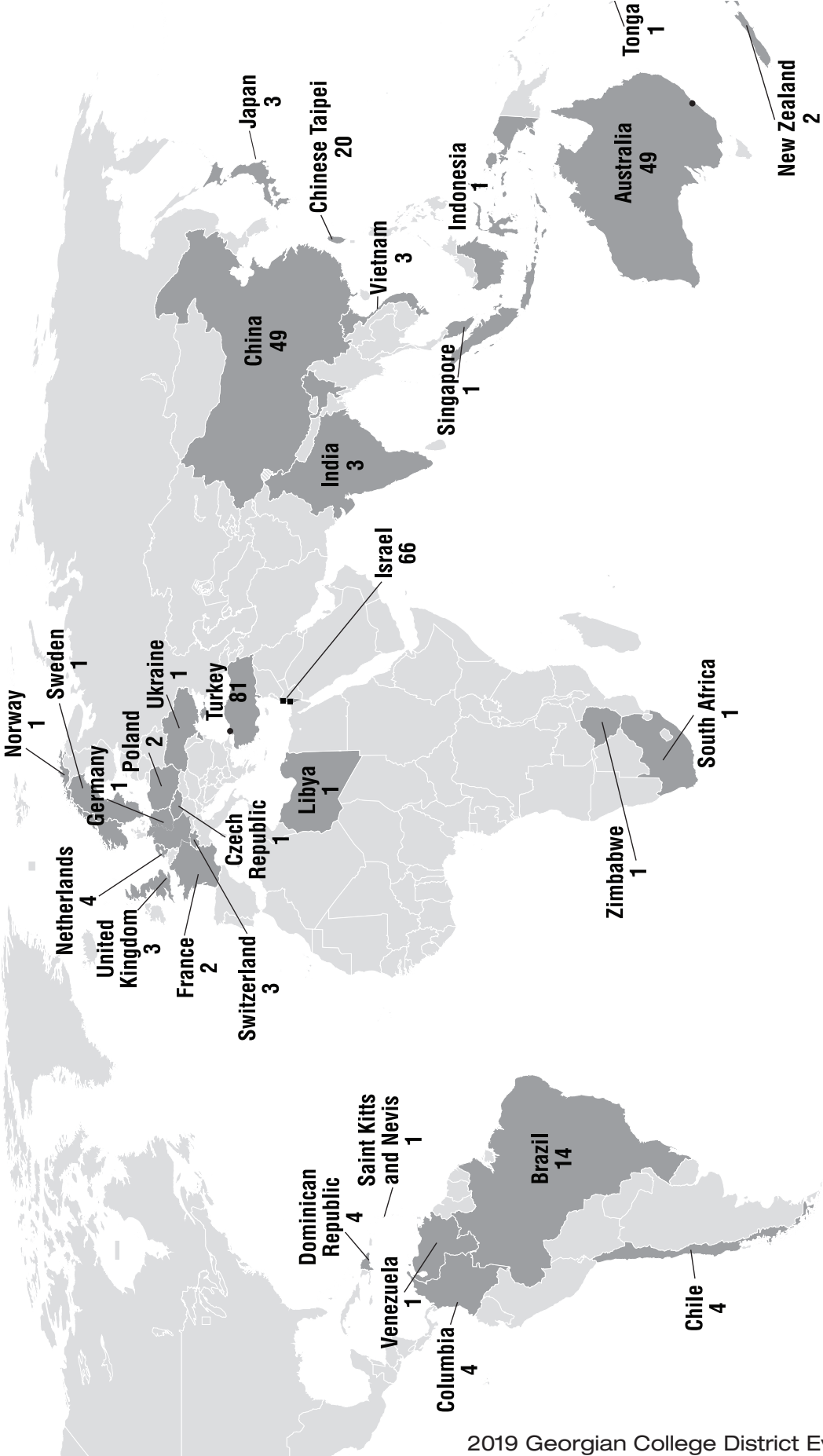


### Map Key

- ★ = location of FIRST Championships
- = Regional Event locations
- = District Event locations

as of 1/09/19







# Get Involved!

How to Get Involved with the *FIRST*<sup>®</sup> Robotics Competition

*FIRST* Robotics Canada is the Canada-based non-profit affiliate of *FIRST*, dedicated to providing students the opportunity to take part in *FIRST* by offering a progression of robotics programs for K-12 (ages 6-18). Our year-round activities include providing support for *FIRST* LEGO League Jr., *FIRST* LEGO League, and *FIRST* Robotics Competition. These programs rely on dedicated volunteers and generous sponsors from our community. We hope that you will join us in any of the following ways:

## Start a team...

Students can become involved with *FIRST* Robotics Canada starting in kindergarten and continue through high school, or they can join *FIRST* at any level. We can help you get started. Visit <http://firstroboticscanada.org> for more information.

## Sponsor a Team or *FIRST* Robotics Canada's programs...

Companies can provide assistance in a variety of ways, including:

- Providing financial support
- Offering scholarships
- Providing internships
- Providing equipment and facilities
- Involving employees as Mentors or Volunteers

*FIRST* Robotics Canada will work with you to design a sponsorship package which meets your needs and helps your organization attain its goals. Please contact Kim Cooper at [kim.cooper@firstroboticscanada.org](mailto:kim.cooper@firstroboticscanada.org) for more information.

## Offer your skills and Mentor a team...

Teams at all program levels need support from mentors. *FIRST* LEGO League Jr. and *FIRST* LEGO League teams benefit from mentors with strong team building skills, as mentors guide the team members in learning about design and basic technology as well as serving as role models. *FIRST* Robotics Competition mentors provide support with more specific skills, including mechanical and electrical engineering, metalworking/welding, programming, project and time management, team building, marketing, fundraising, and graphic design. You don't have to be technical to assist a team. For more information about mentoring opportunities, please visit <http://firstroboticscanada.org>.

## Volunteer your time at any of our year-round events and activities...

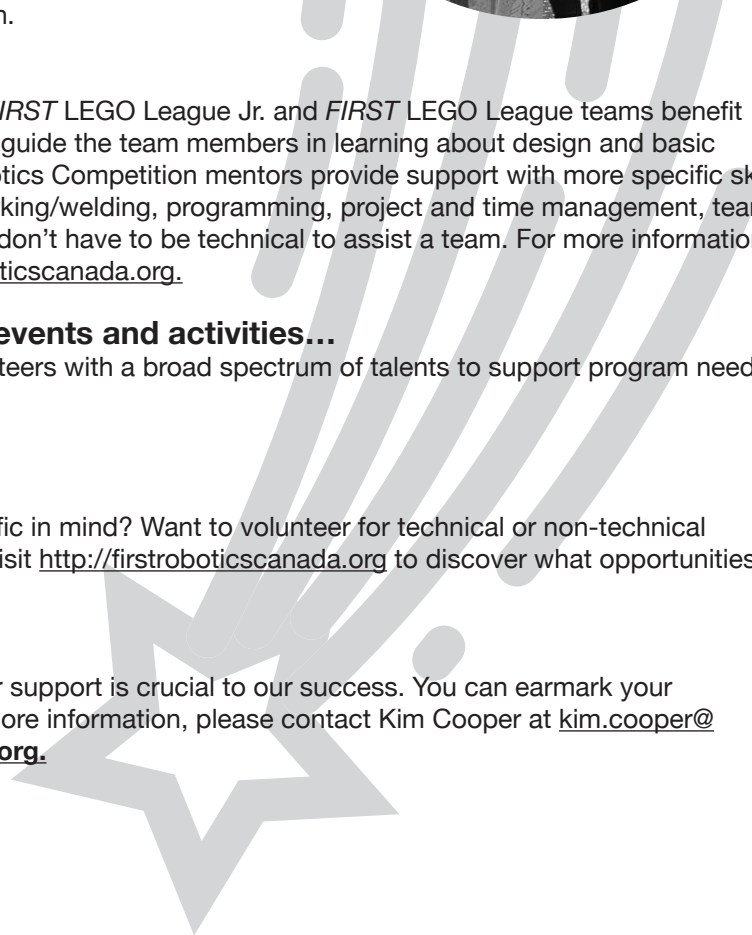
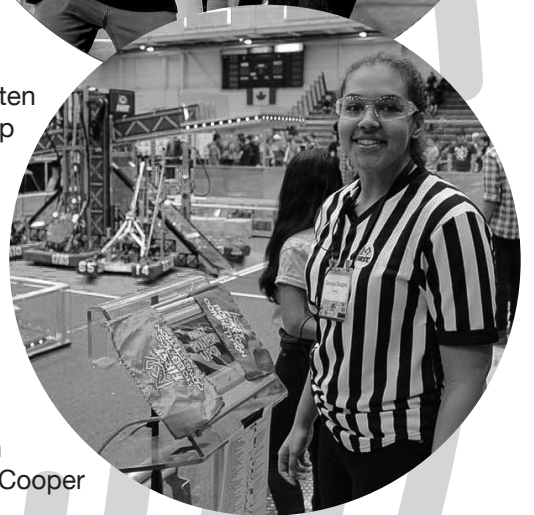
Each *FIRST* program depends on a large number of volunteers with a broad spectrum of talents to support program needs such as:

- Events and competitions
- Workshops and training
- Demonstrations and exhibits

Interested in volunteering but don't have something specific in mind? Want to volunteer for technical or non-technical positions at *FIRST* Robotics Competition competitions? Visit <http://firstroboticscanada.org> to discover what opportunities exist that fit your skills, interests, and schedule.

## Make a donation...

*FIRST* Robotics Canada welcomes contributions and your support is crucial to our success. You can earmark your funds to support a specific aspect of our programs. For more information, please contact Kim Cooper at [kim.cooper@firstroboticscanada.org](mailto:kim.cooper@firstroboticscanada.org). Visit <http://firstroboticscanada.org>.





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# **FIRST<sup>®</sup> prepares students for life beyond high school**

• Create community • Grow your network • Find internships • Inspire others



[firstinspires.org/grad](http://firstinspires.org/grad)

<https://www.facebook.com/groups/firstcanadaalumni>

DV002

# **Money<sup>for</sup> College**

**FIRST<sup>®</sup> Participation + Nearly 200 Scholarship Providers =  
~\$80 million in potential scholarship opportunities**

[firstinspires.org/save](http://firstinspires.org/save)





# Volunteers Fueling the Mission since 1992

**YOU** inspire. **YOU** motivate. **YOU** influence. **YOU** transform lives.  
Be proud; we are.

The Ontario District *FIRST* Robotics Competition relies on dedicated Volunteers and appreciates the contribution of time from everyone who participates. From the expertise of veteran volunteers who return year after year, to the enthusiasm of first-timers, volunteers are the critical component that make our events successful.



## You're going to *FIRST*<sup>®</sup> Championship!



### And it's kind of a big deal.

**Okay, it's a huge deal!** That's why *FIRST*<sup>®</sup> has put together exclusive *FIRST* Championship housing and travel discounts so you and your team can have the time of your lives when you get there.

Start getting ready now and book your housing. When you book with *FIRST*, you will:

- Stay close to all the event action
- Receive guaranteed low rates at *FIRST*-reviewed and sanctioned hotels
- Enjoy *FIRST*-only contracted amenities at most hotels including complimentary Wi-Fi, breakfast, and parking
- Earn rewards points
- Build your STEM squad by connecting with other teams

Plan your whole visit! Additional savings include:

- Ground transportation & car rentals
- Airline travel
- Event discounts

**Start booking all your *FIRST* Championship hotel and travel needs.**

**[www.firstinspires.org/championship-travel](http://www.firstinspires.org/championship-travel)**





THE **ONLY SPORT** WHERE **EVERY KID** CAN **“TURN PRO.”**

millions of people with a proven game-changer for preparing kids to solve the world’s greatest problems. *FIRST* programs inspire innovation and leadership through engaging, hands-on robotics challenges developed to ignite curiosity and passion in students in grades K-12. *FIRST* builds powerful mentorship relationships between young people and STEM professionals, helping kids gain confidence to explore the innovation process while they learn valuable science, engineering, technology, teamwork, and problem-solving skills. *FIRST* creates the people who will change the world – today and tomorrow.

*FIRST*® is the world’s leading child-serving nonprofit advancing science, technology, engineering, and math (STEM). For nearly 30 years, *FIRST* has evolved into a global movement by engaging

PROGRESSION OF PROGRAMS



**FIRST  
LEGO  
LEAGUE JR.**  
Ages 6-10 (Grades K-4)

**FIRST® LEGO® League Jr.** teams build and program a model that moves using LEGO® Education WeDo 2.0 and present their research journey on a *Show Me* poster.

**Children, ages 6-10, get to:**

- Learn about a real-world theme
- Explore challenges facing today’s scientists
- Discover real-world math and science
- Begin developing teamwork skills
- Engage in team activities guided by *FIRST*® Core Values



**FIRST  
LEGO  
LEAGUE**  
Ages 9-16\* (Grades 4-8)

**FIRST® LEGO® League** teams build robots using LEGO® MINDSTORMS® technology and develop research projects based on a real-world Challenge that changes annually.

**Students, ages 9-16\*, get to:**

- Create innovative solutions to challenges facing today’s scientists
- Strategize, design, build, program, and test an autonomous robot
- Apply real-world math and science concepts
- Develop career and life skills including critical thinking, time management, collaboration, confidence, and communication
- Become involved in their local and global community

\*Ages vary by country



**FIRST  
ROBOTICS  
COMPETITION**  
Ages 14-18 (Grades 9-12)

**FIRST® Robotics Competition** teams compete with 120-pound robots of their own design, combining the excitement of sport with the rigors of science and technology.

**Students, ages 14-18, get to:**

- Work alongside professional engineers
- Learn and use sophisticated hardware and software
- Develop design, project management, programming, teamwork, strategic thinking, and *Coopertition*® skills
- Access exclusive scholarships from hundreds of colleges/universities



**FIRST  
CANADA**  
*Get Involved!*

**Earn Scholarships:**

<http://www.firstinspires.org/scholarships>

**Alumni Connections:**

<https://www.facebook.com/groups/firstcanadaalumni/>

**Volunteer Opportunities:**

<http://firstroboticscanada.org>

**Start/Join/Mentor A Team:**

<http://firstroboticscanada.org>

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. *Coopertition*® – Competing hard, but also helping the other teams.

For information about *FIRST*® in your area: <http://firstroboticscanada.org>

**We'd like to thank our Sponsors and Partners for their commitment to the vision of FIRST® and who continue to help FIRST® grow!**

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<http://firstroboticscanada.org>

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