



# FIRST Robotics Competition District Site Specifications 2019

## Venue Requirements

### I. Background Information

*FIRST* (For Inspiration and Recognition of Science and Technology) was founded to inspire an appreciation of science and technology in today's young people. *FIRST* designs accessible, innovative programs to build self-confidence, knowledge, and life skills while motivating young people of all ages to pursue opportunities in science, technology, and engineering. These programs include, [FIRST<sup>®</sup> Robotics Competition \(FRC<sup>®</sup>\)](#) and [FIRST<sup>®</sup> Tech Challenge \(FTC<sup>®</sup>\)](#) for high-school students, [FIRST<sup>®</sup> LEGO<sup>®</sup> League \(FLL<sup>®</sup>\)](#) for 9 to 14-year-olds, (9 to 16-year-olds outside the U.S. and Canada) and [FIRST<sup>®</sup> LEGO<sup>®</sup> League Junior \(FLL Jr.<sup>™</sup>\)](#) for 6 to 9-year-olds.

The *FIRST* Robotics Competition is an annual event that provides high school students the opportunity to work alongside professional engineers to design, build, and compete robots. Student teams work with corporate and community sponsors to compete in *FIRST* regional and championship competitions. The 2019 UIL State Championship will include 64 teams that qualify through *FIRST* Event Competitions throughout the competitive season.

The *FIRST<sup>®</sup>* in Texas Foundation is a 501(c)(3) non-profit that supports *FIRST<sup>®</sup>* Robotics teams and events across Texas with a focus on increasing accessibility for low-income and underrepresented students. *FIRST<sup>®</sup>* participants are significantly more likely to attend college, major in science or engineering, and be outstanding future employees and citizens. By investing in Texas students' participation in *FIRST<sup>®</sup>*, we address the growing demands of the STEM workforce.

### II. Contact Information for contract:

FIRST in Texas Foundation  
2541 South IH-35, Suite 200-263  
Round Rock, Texas 78664  
(512) 953-7701

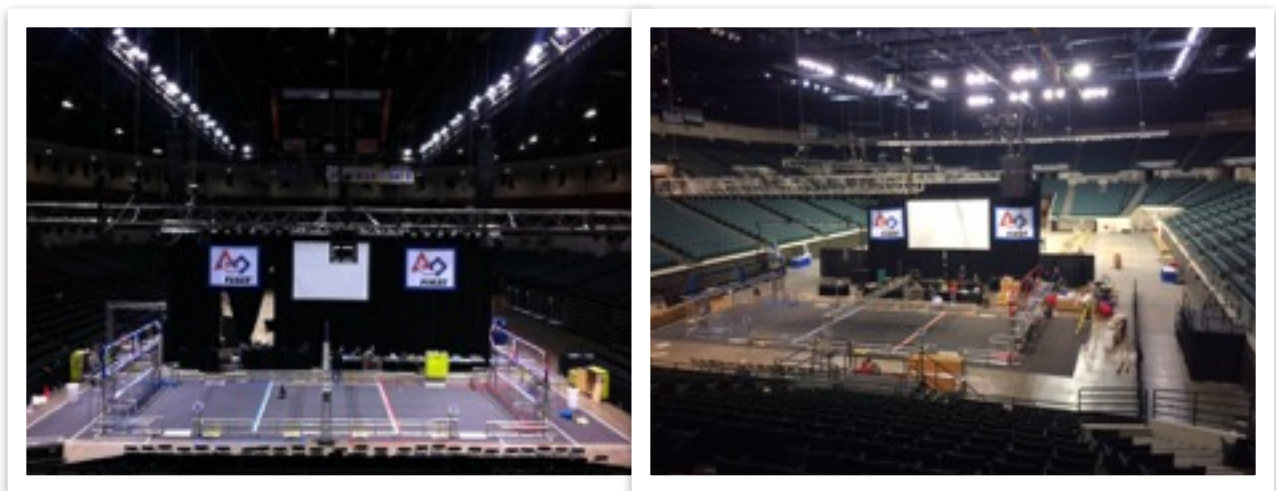
Attn:  
Chris Caddel  
Events & Logistics Manager  
(806) 252-2357  
chris.caddel@firstintexas.org

### III. Site Specifications

#### Playing Field:

The Playing Field is where the teams compete with their robotics. This typically takes place on the arena or gym's main floor. See pictures below and view the competition in action [https://www.youtube.com/watch?v=ROo2hpRe\\_fQ](https://www.youtube.com/watch?v=ROo2hpRe_fQ)

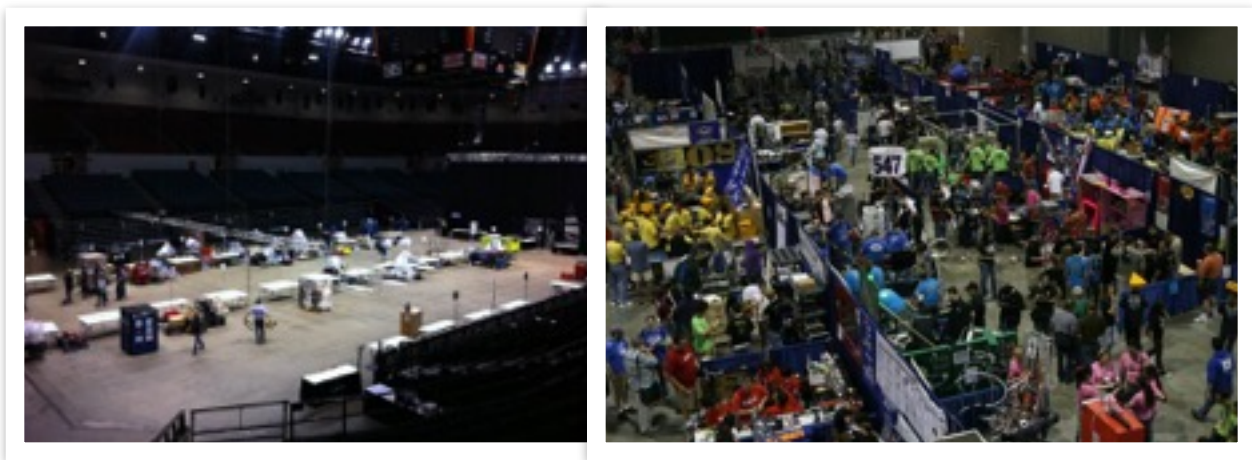
|                     | Minimum Requirements   |
|---------------------|--|
| Playing Field Areas | FRC 60'x100' ft. and FTC 60'x60' ft.   |
| Square Feet         | 9,000 sq. ft. minimum (12,000 sq. ft. desired)<br>Add 10,000 - 15,000 sq. ft. if bleachers needed  |
| Ceiling Height      | Minimum 25 ft.   |
| Seating             | 2,000 min. (2,500 - 3,500 desired)   |
| Power - Lighting    | 200A/208V/3 Phase  |
| Power - Sound/Video | 100A/208V/3 Phase<br>(6-10) 20 amp outlets   |
| Network Connection  | Wireless:<br>5GHz, 802.11n<br>20MHz channel width<br>Band 1 or 4 (channels 36, 40, 44, 48, 149, 153, 157, or 161)<br>Wired:<br>TCP 80 and TCP 443; http/https, general web browsing,<br>TeamViewer, Skype<br>UDP 3851; AirTight/Mojo for wireless monitoring |



**Pit Area:**

The Pit is where teams work on and house their robot when not in competition. The Pit needs to provide enough room for teams to work (ideally a 10’x10 workspace per team), 10’ aisles, as well as same level (non- elevator) competition floor access. See pictures below.

|                             | Minimum Requirements  |
|-----------------------------|---|
| Distance from Playing Field | Within 50 yards of the Playing Field  |
| Square Feet                 | 7,500 -10,000 sq. ft. minimum (Holds 30-40 10’x10’ “Pit” areas surrounded by 10’ walk ways, Pit Administration, EMT, Robot Inspection, Practice Field, Concessions, and team seating area.) |
| Power                       | 100A/208V/3 Phase<br>(64) 10 amp outlets (2) 20 amp outlets   |



**Judges Room:**

The Judges Room is where the competitions Judges deliberate and eat their meals. Room must be within walking distance to the playing field.

|             | Minimum Requirements                   |
|-------------|--|
| Square Feet | 500 - 750 sq. ft.                      |
| Power       | 1,000 Watt/120V with Duplex Receptacle |

**Event Management Office:**

The Event Management Office is where the Event Manager and Staff will set up their office for the week.

|                      | Minimum Requirements |
|----------------------|----------------------|
| Keyed Square Footage | 150 sq. ft.          |



|                    |  |
|--------------------|--|
| Phone Line         | 1 hard line for fax machine            |
| Network connection | 1, wireless or wired                   |
| Power              | 1,000 Watt/120V with Duplex Receptacle |

**Volunteer Lounge:**

The Volunteer Lounge is where the volunteers working the event eat their meals. There needs to be room for people to sit as well as room for buffet tables.

|                  |                      |
|------------------|----------------------|
|                  | Minimum Requirements |
| Square Footage   | 1400 sq. ft.         |
| Seating          | 75 - 100 People      |
| Food Buffet Area | 3 6' tables          |

**Chairman's Award Interview Room:**

The Chairman's Award Room is used for private interviews for up to 10 people. It must be free of major noise from the event.

|                |                      |
|----------------|----------------------|
|                | Minimum Requirements |
| Square Footage | 150 sq. ft.          |

**Dean's List Interview Room:**

The Dean's List Interview Room is used for private interviews for up to 3 people. It must be free of major noise from the event.

|                |                      |
|----------------|----------------------|
|                | Minimum Requirements |
| Square Footage | 150 sq. ft.          |

**Storage:**

Storage needs to be able to accommodate large boxes and crates with easy access for a pallet jack. This storage can be pipe and draped off in a corner or in a separate room. If storage is in a separate room the door must have a 40" wide opening.

|                |                      |
|----------------|----------------------|
|                | Minimum Requirements |
| Square Footage | 1,000 sq. ft.        |

**Hospitality Room- Not necessary, but desired**

The Hospitality function space and special events is targeted towards board members, government officials, celebrities, sponsors, etc. - and are site specific. There needs to be room for people to sit, as well as for buffet tables. AV requirements may exist.

|                |                      |
|----------------|----------------------|
|                | Minimum Requirements |
| Square Footage | 1400 sq. ft.         |
| Seating        | 50-100 People        |



|                             |  |
|-----------------------------|--|
| Distance from Playing Field | 750 - 1,000 sq. ft. or in view/close proximity |
| Food Buffet Area            | Yes/No   |

**Parking**

In addition to 2 semi tractor rigs, FIRST in Texas may have 4-6 POD trailers that will need to be set near a suitable loading entrance to the venue.

|        |  |
|--------|--|
|        | Minimum Requirements                     |
| Spaces | 250-500 spaces, 40 Bus w/ Trailer spaces |

**Other Venue Specifications:**

- Preliminary setup may begin on a Wednesday or Thursday, with bleacher installation and/or floor covering. Site specific.
- Event Manager associated with *FIRST* in Texas may contact the labor, venue, house electrician for this event directly.
- Thursday or Friday setup will begin at 8 AM and finish in the late evening. At 8 AM the first of semi's and/or box trucks will arrive for unloading.
- Friday and Saturday or Saturday and Sunday will be the competition, 7 AM - 6 PM, with teardown on Saturday or Sunday from 5 - 10 PM.
- Catering will start Thursday or Friday morning and continue through Saturday or Sunday with three meals and a break most days. Once Venue specifications and a contract are agreed to, RFP's for A/V, Decor and Catering and Expo services will follow.

**Proposed Schedule:**

**Thursday or Friday Load In**

Event: Load-in, Setup and Team Check-In  
 Set-up Time: 8 am- 8pm

**Friday or Saturday**

Event: Competition Day & Interviews  
 Event Time: 8:30 am-8 pm  
 Doors Open: 8:30 am  
 Client Access: 7 am  
 Volunteer Access: 7 am-8 am

**Saturday or Sunday**

Event: Competition Day  
 Event Time: 8 am-6:30 pm  
 Doors Open: 8 am  
 Client Access: 6:30 am  
 Volunteer Access: 7 am-8 am  
 Client Breakdown: After event