

The FIRST Coach Experience



Learn from the locals in the Mission Trails Robotics Community!

	FIRST LEGO League (FLL)	FIRST Tech Challenge (FTC)
The Team		
What size are MTRC teams?	4 to 8 students per team	7 but previously as many as 11
What do MTRC coaches	4 to 6. Too many and they don't	6 or 7 is good for a low-budget
consider an ideal team size?	get enough time on the robot,	team in a small space, but a
	too few and they don't have	team with a lot of room and
	enough help with the project	parts could keep 9 or 10 kids
		busy
What grades are MTRC robot	4 th to 8 th grade, but usually a	They started in 7 th or 8 th grade;
team students in?	team has kids only a year or two	next year all will be in high
	apart	school.
The Budget		
What was your budget your first	\$1200 to \$1500	\$2500 to \$3000
season?		
What's a good budget for a	\$1000	\$1200 to \$1500
returning season?		
What expenses recur each	Registration fees, tournament	Registration fees, competition
season?	fees, project supplies, shirts	kits, notebook supplies, shirts
What are some examples of	Sensors, motors, replacement	Specialized equipment,
single season or variable	parts	replacement motors, extra
expenses?		parts, 3D printer filament
What equipment can be reused	Robot, LEGO bricks, special	Mats, field perimeter,
each season?	equipment (sensors, motors)	electronics, robot parts, wheels,
		special equipment
What was your biggest expense	Robot and additional parts	Robot kit and electronics
the first season?	·	
What is the biggest expense in	Registration fees	Competition set + shipping
returning seasons?		Specialty parts (mecanum
_		wheels, sliding rails, linear
		actuators)
What is your "I Wish" budget?	\$1500 to \$2200 per season	\$2000 to \$3000 per season.
What would you spend the extra	Robot parts, tee shirts or other	Enough pieces for double
money on?	team wardrobe parts, team	chassis and double electronics,
,	identity swag to share with	extra parts for brainstorming,
	others at competitions, field	spare motors, not having to
	trips	worry about shipping fees
Where do your team funds	Local businesses. More than one team started with parent	
come from?	contributions the first season. Many corporations will sponsor	
	teams that their employees mentor. Qualcomm, NAVWAR, and	
	Booz Allen Hamilton have done this locally; Raytheon, Northrup Grumman, and many other corporations have this relationship	
with teams in San Diego.		·

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The Season		
How long is the competition season?	August through December, with post-season events in January and throughout the spring	August through February. Very occasional optional summer events.
How many competitions do you attend in a season?	2 or 3, 4+ if attending FLL Cup, Spring Showdown, or an invitational	4 or 5, 6 if your team is selected for Worlds!
How often does your team meet each week?	Typically 2 days/week, but it usually ramps up as we get closer to competition if the kids need more time to prepare for competition	Once a week for a brief check-in Zoom call; one or two times a week for building and programming. Many days per week before League Finals, especially for notebook work.
How long is a typical team meeting?	1 ½ to 2 hours, but can stretch to 3	2 hours, but can run much longer, especially on a weekend
What is the busiest time of the season?	October and November	January and February, but also the week before any competition
What is the best time of the season?	Any time you can hang out with robot kids, especially at competitions.	Competitions! Meeting and collaborating with other teams, and collecting team buttons

More information about the FIRST robotics programs at <u>www.firstinspires.org</u>

Need more information? Contact HCSTEMM at info@hcstemm.org.
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