

## **FRC Program Roles As of October 31 2021**

**All Roles that work directly with students are expected to help with the following..**

- Lead or support the leadership of weekly buildspace sessions
  - Maintain buildspace, encourage safety and healthy teamwork environment
  - Assist team members with programming
  - Maintain process focus
  - Assist team with wiring the robot's power and signal system
  - Assist and instruct on electrical systems
  - Assistance with design and construction of the robot
  - Advise students on the safe use of tools and safety procedure
- Coach and develop soft skills in team members
  - Know each student by name and understand areas of interest
  - Greet and engage with students
  - Encourage effective Project management
  - Encourage teamwork and upkeep of our common buildspace
  - Support frequent and effective communication (slack, in person)

**A variety of roles are required to run a successful *FIRST* Team. The following roles may be either Mentors (routine commitment in accordance with ATAA Roles) or Tech Specialists (variable hour commitment)**

**Strategy** - Facilitates the game strategy during competition season and provides input to team development needs during the off-season

**Mechanical** - Guides the design, fabrication, prototyping, and robot maintenance during comp season. Works closely with Strategy, CAD, Electronics, Programming, Pit Crew, and Drive Team. Tool operation and safety.

**Machinist** - Assist with student training on tool use, prototyping, advanced fabrication, and liaise with 3rd party providers

**Electronics** - Guides the electrical/electronics design, fabrication, control integration, and maintenance. Works closely with Strategy, CAD, Mechanical, Programming, Pit Crew, and Drive Team

**Programming** - Guides the development of robot code and all things software-related. Works closely with Mechanical, Electronics, Pit Crew, and Drive Team

**CAD** - Guides the computer design of the robot and systems in SolidWorks. Work closely with Strategy, Mechanical, and Electronics.

**Drive Team** - Guides driver development, team dynamics, and competition readiness. Works closely with Strategy, Mechanical, Programming, Scouting, and Pit Crew

**Scouting** - Guides the collection and analysis of competition data for the Competition, and Drive teams

**Marketing/PR or Outreach** - Guides Outreach, Social Media, Fundraising, Recruiting, and Apparel initiatives

**Safety** - Guides the overall safety program, ensuring physical and emotional safety of all members.