



|| ROBOTICS COACH - AFTER SCHOOL PROGRAM ||

St. Teresa's Academy
2021-2022 Academic Year - Immediate Opening

The Academy is seeking a part-time Robotics Coach to work with the Principal for Academic Affairs, Director of STEAM Projects & Education and STA colleagues. The primary focus is to coach each participating student to engage in the engineering design process and view themselves as innovators.

St. Teresa's is a Catholic, college preparatory high school committed to excellence in the education of young women, the Academy offers a rigorous academic curriculum combined with the latest technology, competitive athletic teams, award-winning fine arts programs, and a wide variety of extracurricular opportunities. St. Teresa's Academy educates young women to think critically, encourages them through Catholic values to love the dear neighbor without distinction, and empowers them to change the world.

RESPONSIBILITIES

- Coach the STARbots Robotics /First Tech Challenge Team
- Supervise students to ensure they are safe, productive, and engaged
- Coordinate multiple small groups of students and mentors who are working on a widely varying set of tasks at the same time; try to ensure that everyone has an opportunity to learn or be productive
- Collaborate with and manage the volunteer professional mentors to best utilize their talents for developing the students and achieving team goals
- Ensure that tools are used safely, technology is used appropriately, and the Maker Space/ Engineering Lab is cleaned up by the end of each meeting
- Supervise team meetings as required
 - Meetings take place 3 days a week for estimated 3 hours each after school
- Plan travel arrangements for competition events
 - Events held 4-6 Saturdays a year
- Plan an FTC competition event at STA once per year
- Coordinate occasional community outreach events/demonstrations
- Order materials according to school purchasing procedures
- Organize and lead summer STEAM camps
- Coordinate the team's professional volunteer mentors
- Assign students to specific sub-teams and tasks in order to develop the students' skills and help the team achieve their goals
- Maintain a safe and clean working environment, and keep students focused on maintaining safety
- Communicate pertinent information to students, parents, mentors, and sponsors

REQUIRED KNOWLEDGE, SKILLS, and EXPERIENCE

- High School diploma required
- Robotics experience and specific technical experience is preferred but NOT required
- Desiring a coach with programming and/or coding experience (Java and/or Python)
- Will need to pass FIRST Robotics Association background check in addition to the school's employee background screening
- Ability to empower young women to think critically, solve problems, flex their creative muscles, and showcase social skills while working in teams
- Understanding of the Catholic faith, single-sex schools, and the mission of the Sisters of St. Joseph of Carondelet preferred

FIRST Tech Challenge Season Overview

STA Robotics, including FTC, maintains some level activity throughout the year. September through February is the core time of the year for FTC. A typical year calendar:

August: Recruit Students, community outreach, training

September - October: Game is revealed; robot build season; training continues

November - February: Continued build and competition season

March - April: Super Regional (if qualified) and World Championship (if qualified); otherwise begin offseason activities such as outreach and summer camp planning

May - July: Plan and implement summer camp, off season projects as desired and outreach activities

St. Teresa's Academy is an Equal Opportunity Employer

August 2021