



Position Title: Engineering & Robotics Teacher, Upper School
Position Status: Full-time
FLSA Classification: Exempt
Reports To: Engineering & Robotics Department Chair and Head of Upper School

Position Purpose:

Teach or co-teach up to four total sections of Engineering, Robotics and CEL to high school students through collaboration with a team that is a leader in engineering education. Develop lesson plans in line with curriculum objectives and SCH curriculum maps. Must be willing to coach and mentor FIRST Robotics FRC, FTC and FLL teams evenings and weekends (stipend). Participate in Robotics Summer Camps. Supervise Engineering & Robotics Lab including teaching safe equipment operation, overseeing student design projects, and ensuring timely equipment maintenance.

Essential Functions

- Collaborates with co-teachers teaching the same course to develop daily lesson plans and curricular materials.
- Follows course objectives and outlines course of study following curriculum guidelines and any school requirements as mentioned in the mission statement.
- Demonstrates models, and designs learning experiences that foster 21st century learning skills in students.
- Integrates technology as an essential and regular component of student learning experiences.
- Prepares, administers, corrects, and records assessment results in a regular and timely manner.
- Tailors instruction to meet the needs of students.
- Provides students with a variety of formats by which they can demonstrate skill mastery.
- Provides timely and regular feedback on students' progress toward skill mastery.
- Maintains order and enforces school policies in the classroom and throughout common areas of the campus.
- Counsels pupils when adjustment and academic problems arise.
- Discusses pupils' academic and behavioral attitudes and achievements with parents/guardians.
- Keeps daily attendance and records of students' progress.
- Collaborates within the Engineering Department and with all departments and offices as required or requested.
- Attends work and arrives/departs work at the appropriate times as determined by the immediate supervisor.

Qualifications

- Excellent communication skills, both oral and written.
- Ability to develop and implement curriculum, assessments, and utilize teaching methodologies/best practices.
- Strong background in engineering with an advanced degree or experience preferred.
- Strong interpersonal skills and the ability to work effectively with a wide range of constituencies in a diverse community.
- Knowledge of content, curriculum, methods, materials, and equipment for engineering education.
- Knowledge of 21st-century learning skills and practices, current science standards, and inquiry-based pedagogy.
- Knowledge of applicable safety procedures.
- Ability to provide a supportive, caring, and positive environment for students and to maintain classroom discipline.
- Working knowledge of personal computer skills with experience in the use of web-based applications, including course management programs, Google Drive applications, MS Office applications, and email.
- Comfortable with a team-based work structure; ability to demonstrate flexibility on the job.
- Demonstrates initiative is conscientious and provides complete follow-through on areas of responsibility.
- Demonstrated sensitivity, knowledge, and understanding of the diverse backgrounds of community members with a continuous focus on healthy relationship building.
- Demonstrated deep understanding of cultural competency skills and enthusiasm for issues of diversity, inclusivity, and multiculturalism.
- At a minimum, a bachelor's degree in engineering or related fields.
- At least two years of experience teaching engineering or related courses, or equitable experience.

- Experience with Tormach CNC milling machines, MACH3 software, metal lathes, Epilog Laser Cutter, and 3D printing.
- Experience with FIRST Robotics FRC, FTC and FLL competition teams.
- Experience leading design teams for Robotic Systems design, Engineering Design and Fabrication.
- Experience with long-duration Project Based Learning classes.
- Experience with Differentiated Instruction.

Physical Requirements and Work Environment

- Be able to occasionally lift up to 30 lbs.
- Regularly use close and distance vision.
- Be able to operate CNC Machinery such as Tormach CNC Milling machines, MACH3 Software, Metal Lathes, Epilog Laser Cutter, and 3D Printing.
- Able to move around a classroom and other school environments.

Application Procedure

Interested candidates, please **e-mail** a cover letter, resume, statement of education philosophy, and contact information for three references to careers@sch.org.

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