

SHANGHAI AMERICAN SCHOOL

SHANGHAI AMERICAN SCHOOL JOB DESCRIPTION

TITLE: ROBOTICS & ENGINEERING TEACHER, HIGH SCHOOL, PUXI CAMPUS
SCALE: Teacher Salary Scale
CONTRACT DAYS: up to 191

POSITION SUMMARY:

The Shanghai American School STEAM program is expanding to provide all students in grades 9-12 an opportunity to experience Engineering Design & Robotics classes where they will learn central concepts in Robotics, electronics and maker space skills. In addition to STEAM-specific skills, students will also strengthen their creative problem solving, critical thinking, collaboration, digital literacy, and communication skills. The successful candidate will be an experienced instructor with the ability to teach robotics, electronics, and engineering classes, and support the growth and direction of the STEAM Department as a whole.

This role requires a high degree of autonomy, drive and passion toward technology and its applications in the real world. You have a natural knack in engaging an audience, patience to work with active inquiring minds, and the ability to break down complex problems into smaller digestible pieces. This role provides first-hand experience in shaping the minds of our next generation.

The successful Robotics and Engineering Design teacher understands the importance of STEAM based education, maker spaces and robotics in high school education and is able to support an engaging curriculum around the ideas of maker spaces, engineering design and robotics. Prior experience in K-12 robotics project-based learning is desirable. Candidates with previous industry experience are encouraged to apply. Strong communication skills and the ability to inspire students to innovate and create are essential.

Teachers within Shanghai American school are recognized, along with students, as the school's most valuable resource. Faculty members are recruited and offered employment based upon prior exemplary teaching performance. Teachers must be fully credentialed/certified for their respective assignments and must maintain both teaching excellence and credentials throughout employment.

SUPERVISED, EVALUATED BY & REPORTS TO:

Building Principal

JOB REQUIREMENTS

- Demonstrated passion and expertise in the teaching of robotics, and maker space technologies.
- Ability to develop a curriculum with topics relevant to current industry and be proficient in languages that are industry best practices for the curriculum.
- Familiarity with high school level robotics competitions (FTC, FRC, Vex, etc.) or equivalent levels.
- Ability to implement and develop robotics competitions at the high school level.
- Ability to supervise extracurricular responsibilities linked with competitions and attend matches and tournaments with teams (as needed).
- Maker Space experience including 3D modelling & design software, basic wood & metal working, CNC machining, Laser cutting & 3D printing.

- Experience in electronics teaching and prototyping.
- Willingness to research and learn new programming languages and technologies and bring them into the classroom.
- Minimum Bachelor degree or above.
- Minimum five (5) years teaching experience.
- Demonstrated knowledge of curriculum and the needs of students.
- Demonstrated successful teaching experience at the age level and subject to be taught is desired.
- Demonstrated experience collaborating on curriculum, instruction, and assessment with other teachers within and between disciplines.
- Demonstrated experience teaching using an inquiry-based approach.
- Demonstrated experience participating in advisory or similar model for supporting students' social and emotional growth.
- Demonstrated experience working with learning management systems
- Demonstrated evidence of classroom management skills.

PERFORMANCE RESPONSIBILITIES:

- Provide day-to-day instructional excellence to each student.
- Actively support and promote the school's mission and core values.
- Work cooperatively with fellow-staff members and administrators in curriculum design, assessment and implementation as it pertains to specific grade levels and programs.
- Work cooperatively with parents to meet the needs of students and to promote the philosophy and goals of the school.
- Assist fellow teachers and administrators in the ordering of educational supplies and materials.
- Coordinate and implement at the classroom level appropriate student assessments and utilize assessment results in a prescriptive, constructive manner to promote student learning.
- Be knowledgeable and utilize standardized testing and other assessment data to deliver appropriate instruction to each student.
- Actively participate in school sponsored events & activities.
- Actively support the School through participation of the after-school activities program.
- Perform additional duties as assigned by the Principal.
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SAS BELIEVES:

- That each employee makes a significant contribution to our success,
- That contributions should not be limited to the assigned responsibilities.

Therefore, this position description is designed to outline primary duties, qualifications and job scope, but not limit the employee nor SAS to only the work identified. It is the expectation of the school that each employee will offer his/her services wherever and whenever necessary to ensure the success of our organization.