



# RIALTO UNIFIED SCHOOL DISTRICT

## TEACHER ON SPECIAL ASSIGNMENT- MAKERSPACE Job Description

### DEFINITION

Under general supervision of the Principal, the Makerspace teacher will inspire and guide students in hands-on, project-based learning. The ideal candidate will foster creativity, critical thinking, and problem-solving skills by integrating technology, engineering, and design into engaging learning experiences. This position involves managing the makerspace classroom and mentoring students in the use of tools, materials, and technology to bring their ideas to life.

### ESSENTIAL DUTIES

- Facilitate hands-on workshops for students in subjects like robotics, coding, e-textiles and stop-motion animation.
- Design and implement makerspace programs and activities aligned with educational goals and standards.
- Develop project-based learning experiences that integrate STEAM (Science, Technology, Engineering, Art, Mathematics) concepts.
- Create differentiated instruction to meet the diverse needs of learners.
- Teach students to safely and effectively use tools, equipment, and materials such as 3D printers, laser cutters, woodworking tools, electronics, and coding software.
- Encourage collaboration, critical thinking, and innovation among students.
- Guide students through the design thinking process, including brainstorming, prototyping, testing, and refining ideas.
- Maintain a clean, organized, and safe workspace.
- Ensure the proper functioning and maintenance of all tools, equipment, and technology.
- Manage the inventory of supplies and materials, placing orders as necessary.
- Collaborate with faculty to integrate makerspace activities into various subject areas.
- Partner with community organizations, businesses, and professionals to enhance makerspace offerings.
- Foster a welcoming and inclusive environment for all students.
- Track student progress and provide constructive feedback on projects and skills.
- Organize and showcase student projects at events, exhibitions, or competitions.
- Provide professional development for staff to utilize makerspace resources effectively.
- Cooperates in school-wide supervision of students during out-of-classroom activities.

### QUALIFICATIONS

#### **Experience and Education:**

- Possession of a Bachelor's Degree from an accredited college or university.
- Possession of a valid California teaching credential authorizing service as an elementary teacher.
- Possession of a valid EL authorization.
- 3 years of experience in a makerspace, classroom, or similar setting.
- Proficiency in using makerspace tools and technologies (e.g. CAD software, microcontrollers, CNC machines).

#### **Skills and Abilities**

- Passion for innovation, creativity, and hands-on learning.
- Strong communication, collaboration, and organization skills.
- Ability to troubleshoot technical issues and provide technical support.
- Familiarity with emerging technologies and trends in STEAM education.

### PHYSICAL DEMANDS

#### **Physical class:**

**Moderate Work** - Lifting 50 pounds maximum with frequent lifting and/or carrying objects weighing up to 25 pounds.

**Work area requirements:**

Regular and specialized, auditorium, multipurpose rooms, classroom, on the playground, parking lot, bus stop areas and possibly field trips. Ability to use common school hand tools, computer, telephone and photocopy machine. Ability to traverse a 40 acre campus which would include asphalt, sidewalks, grass on playgrounds, dirt, and bus areas.

**Physical requirements:**

The time requirements are listed considering this wording and meaning:

Occasionally/Low - up to 3 hours  
Frequently/Medium - 3 to 6 hours  
Constantly/High - 6 to 8 hours

Stooping:	Occasionally	Carrying:	Constantly
Bending:	Constantly	Standing:	Frequently
Keyboarding:	Occasionally	Kneeling:	Occasionally
Lifting:	Occasionally	Sitting:	Occasionally
Reaching:	Occasionally	Driving*:	Occasionally
Handling:	Constantly	Walking:	Constantly
Grasping:	Constantly	Push/Pull:	Occasionally
Fingering:	Constantly		

***\*Possession of a current California Driver's license, a DMV printout and the ability to be covered by the company auto insurance is required.***

**Frequent motion:**

Twisting:	Constantly	Forward shoulder/neck flexion:	Frequently
Wrist flexion:	Constantly	Reaching to above shoulder level:	Occasionally
Elbow flexion/extension:	Constantly	Reaching below shoulder level:	Constantly
Reaching to shoulder level:	Occasionally		

**Sensory requirements:**

Ability to see:	Constantly	Ability to smell:	Constantly
Ability to hear:	Constantly	Ability to touch:	Constantly
Ability to talk:	Constantly		

**Must be able to deal with these environmental considerations:**

Heat:	Occasionally	Odor:	Occasionally
Noise:	Medium	Slippery floors:	Occasionally
Humidity:	Low	Moisture:	Occasionally
Working inside:	95% of the day	Working outside:	5% of the day
Working in close quarters with others:	High		

**This job requires:**

Alertness:	Constantly	Recall of names and dates:	Yes
Attention to detail:	Constantly	Use of two hands:	Constantly
Ability to work in temperatures down to 40 degrees and up to 110 degrees.			

**Ability to deal with psychological factors:**

Team work:	High	Must keep up with schedule:	High
Frustration:	High	Able to work overtime as needed:	Frequently/Over 3 hours per day
Repetitive tasks:	High	Dealing with frustrated staff, students, parents:	Occasionally
Level of responsibility:	High		

**Physiological Factors:**

Maintain a high level of consciousness:	All day long
Orientation to time, place or person:	Yes
Ability to comprehend and follow directions:	Yes
Able to keep up a high activity level:	Yes

**District Requirements:**

Fingerprints on file as required by State law  
TB Skin Test as required by State law