

# North Kingstown School Department

## FUNCTIONAL JOB DESCRIPTION

<b>Job Title:</b>	<b>Robotics Advisor</b>
<b>Department:</b>	<b>DMS</b>
<b>Reports to:</b>	<b>Principal</b>
<b>Supervises:</b>	<b>Students</b>

**Description of job:**

**THE ADVISOR BEGINS MEETING WITH STUDENTS FROM THE BEGINNING OF SCHOOL UNTIL THE END OF JANUARY, APPROXIMATELY 35-40 TIMES AS STUDENTS ATTEND TUESDAYS, WEDNESDAYS, AND THURSDAYS FROM 2:30 - 5:00. TWO WEEKS PRIOR TO THE COMPETITIONS THE TEAMS MEET FROM 2:30 TO 5:30.**

The Robotics Advisor work hands-on with all of the students to complete the goals and missions of the First Lego League (FLL) tournaments. Advisors are required to engage students in science, technology, engineering, art/design, and math through robotics. They provide opportunities for inquiry, rapid iteration, computational thinking and problem-solving. They teach students to collaborate and function as a team while developing critical life skills including communication, persistence and conflict resolution. They teach the students the CORE values of the FLL: discovery, innovation, impact, inclusion, teamwork, and fun. While they work on projects the Advisors challenge the students to think like scientists and engineers. The Advisor communicates real-world problems within a given project where the students will build, test, and program autonomous robots using LEGO MINDSTORMS technology to solve student selected missions for the FLL tournament. The robotics culminating activity is their participation in two full days of competition; the FLL Qualifier and the FLL State Championship at Roger Williams University. Advisors are also responsible for obtaining the registration and field kit for the FLL tournament, paying the tournament fees, ordering and payment of team t-shirts, and maintaining appropriate project supplies and snacks.

TIER I

<b>Protective Personal Equipment:</b>	n/a
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<b>Classification:</b>	<b>Sedentary:</b>	<b>Light:</b>	<b>Medium: x</b>	<b>Heavy:</b>	<b>Very Heavy:</b>
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**Classification Key:**  
*Sedentary – Exerting up to 10 lbs. of force occasionally; negligible amount of force frequently to lift, carry, push/pull or otherwise move objects;*  
*Light – Exerting up to 20 lbs. of force occasionally and/or 10 pounds of force frequently or negligible amounts of force constantly to move objects;*  
*Medium – Exerting 20 lbs. – 50 lbs. of force occasionally; 10 lbs. – 20 lbs. frequent; and/or greater than negligible up to 10 lbs. of force constantly to move objects;*  
*Heavy – Exerting 50 lbs. – 100 lbs. of force occasionally; in excess of 50 lbs. frequently; 10 lbs. – 20 lbs. of force constantly to move objects;*  
*Very Heavy – Exerting in excess of 100 lbs. of force occasionally; and/or in excess of 50 lbs. of force frequently; in excess of 20 lbs. of force constantly to move objects.*

<b>Driving Requirements:</b>	None: x	Manual:	Automatic:
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Work Environment	
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<b>Floor Surface:</b>	Tile and/or carpet		
<b>Inside:</b>	Up to 100%	<b>Outside:</b>	Up to 5%
<b>Lighting:</b>	Incandescent or Fluorescent		
<b>Vibration:</b>	n/a		

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## PHYSICAL DEMANDS

LIFTING						
Maximum weight lifted: up to 35 pounds occasionally						
WEIGHT	Never	Occasionally	Frequently	Constant	Heights	Description of object
0 – 10 lbs.		x				
10 – 20 lbs.		x				
20 – 35 lbs.		x				
35 – 50 lbs.	x					

CARRYING						
Maximum weight carried: up to 35 lbs.						
WEIGHT	Never	Occasionally	Frequently	Constant	Distances	Description of object
0 – 10 lbs.		x				
10 – 20 lbs.		x				
20 – 35 lbs.		x				
35 – 50 lbs.	x					

PUSHING/PULLING						
Maximum push/pull: 10 pounds						
WEIGHT or FORCE	Never	Occasionally	Frequently	Constant	Distances	Description of object
0 – 10 lbs.		x				
10 – 20 lbs.	x					
20 – 35 lbs.	x					
100 + lbs.	x					

ACTIVITY	Never	Occasionally	Frequently	Constant	Comments
Sitting			x		
Standing			x		
Walking			x		
Bending		x			
Twisting		x			
Crawling	x				
Kneeling		x			
Squatting		x			
Climbing		x			
Reaching – Vertical		x			
Reaching – Horizontal			x		
Grasping		x			
Pinching		x			
Manual Dexterity		x			
Fine Dexterity		x			

**FREQUENCY KEY:** Never (0%); Occasionally (0 – 33% of shift); Frequently (34-66% of shift); Constant (67 – 100% of shift)

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### Qualification Requirements:

To perform this job successfully, an individual must be able to perform each of the above noted essential duties satisfactorily. The requirements listed below are representative of the knowledge, skill, and /or ability required. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions. Available to meet after school.

### Education and/or Experience:

### License/Certificate/Certification:

### Technological and/or Technical Skills:

Ability to demonstrate use of notable Google Apps such as Docs and Sheets

### Communication Skills:

Ability to communicate effectively with all levels within the organization including administration, staff, and students and peers.

### Planning Skills:

Required to take attendance and submit to the building principal on a monthly basis. Must be able to understand competition expectations and plan instruction accordingly. Have a clear mission for the club with written agendas that promote DMS in a positive manner and is inclusive of all students.

### Interpersonal and Problem solving skills:

Strong need to help students learn to program their robots and execute designs.

### Terms of Employment:

1 year. Posted yearly.

### Evaluation:

Date: 5/2019, 8/2019

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