مؤسسة نهر الأردن
Jordan River Foundation

**Request for Quotation (RFQ)**
**RFQ# JRF-P-2020-033 - Sumo Robotic Kits**

## 1. REQUIREMENTS

The Jordan River Foundation (JRF) is seeking quotations from specialized suppliers to provide quotations for **270 Arduino Robotic kits** for assembling & programming sumo robots weighing up to 3 kg and fit inside a 20 cm by 20 cm box to conduct Sumo Robot Competitions.

Robot-sumo is a sport in which two robots attempt to push each other out of a circle (in a similar fashion to the sport of sumo). The engineering challenges are for the robot to find its opponent (usually accomplished with infrared or ultra-sonic sensors) and to push it out.

**Offers must include a free of charge training package for nominated robotics trainers.** By the end of training, the trainers should have comprehensive understanding of the kits and possess sufficient assembly and programming know-how to coach students aged 14-24 to creatively design and develop mini sumo-bots using the kits. The trainers should also have the software resources to help them organize & conduct Sumo Robot Lunge Competitions. The main objective of the competitions will be to engage as many students as possible in robotics.

The requested kits must contain the following high-quality assembly parts:

| # | Item | Specs | QTY | Illustrative Guidance |
|---|---|---|---|---|
| 1 | Metal Robot Chaises Kit | Metal Robot Chaises | 1 | |
| 2 | Geared DC Motors | | 2 | |

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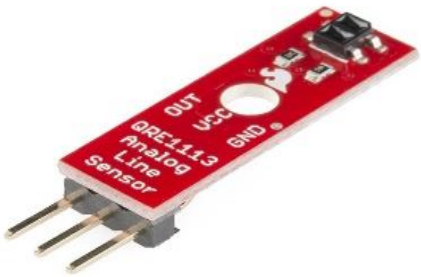
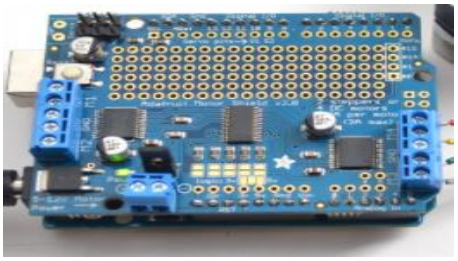
| 3 | Line Follower Sensors | The Line Follower sensor is an add-on that gives the robot the ability to detect lines or nearby objects | 4 |  |
| 4 | Ultrasonic Sensor | HC - SDR04 | 1 | |
| 5 | Robot MCU | Arduino Uno r3 | 1 | |
| 6 | Motor Driver | adafruit motor shield v2 | 1 |  |

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| 7 | Battery Holder | High Quality 6 AA Batteries Holder with switch and cover - able to Operate the robot and to be mounted on the Controller Base or the Metal Robot Chaises | 1 | |
| 8 | Controller Base | May not be readily available. Laser Cut for the Sumo Robot to hold the Robot Electronics and Batteries | 1 | |
| 9 | Caster Wheel | https://www.aliexpress.com/i/32859925627.html | 1 | |
| 10 | Robot Wheels | https://www.amazon.com/Plastic-Wheel-Motor-Shaft-Arduino/dp/B07P9Z4T2K/ref=sr_1_3?crid=3P28JJTOVN080&dchild=1&keywords=arduino+robot+wheels&qid=1602486154&sprefix=arduino+robot+wheel%2Caps%2C288&sr=8-3 | 2 | |

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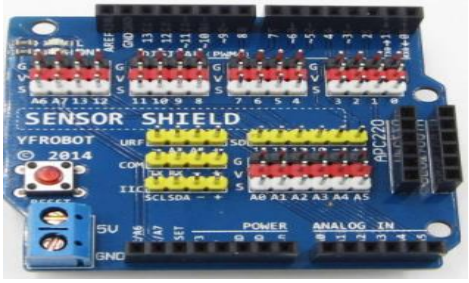
|---|---|---|---|---|
| 11 | Sensors Breakout | Arduino Uno Sensors Shield | 1 |  |
| 12 | Jumper Wire | Female 30 CM<br><br>20 pieces kit Jumper wires | 20 | |
| 13 | Pillars | | 4 | |
| 14 | USB cable | A/B USB Cable for Arduino Uno programing | 1 | |
| 15 | Ultrasonic Sensor Holder | | 1 | |

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|---|---|---|---|---|
| 16 | Assembly Kit | Screw Driver , screws & nuts | 1 | |

Specialized providers must include the following in their quotations:

- **Detailed unit price on the assembly parts**
- **25-30 hours of training free of charge for nominated robotics trainers**
- **Free consultation on organizing the Sumo Robot Lunge Competitions**
- **Training manuals must be provided by the supplier**
- **A copy of their legal registration.**
- **Prices excluding sales tax.**

## Description

## 2. BACKGROUND

The Jordan River Foundation (JRF) is a Jordanian non-profit, non-governmental organization established in 1995 and Chaired by Her Majesty Queen Rania Al Abdullah. JRF works in communities adopting a multi-stakeholder approach that encourages community ownership and proactive involvement of all stakeholders; be it community members, Community Based Organizations (CBOs), local government, youth and women, striving to explore solutions to create sustainable and resilient communities.

JRF celebrates its 25th anniversary this year, marking over two decades of social, economic and cultural interventions that have enhanced the lives of hundreds of thousands throughout the Kingdom. JRF has two main programs - Community Empowerment (CEP) and Child Safety (CSP) programs; in addition to an established Training & Consultancy Division that transfers all the tested models and best practices from both programs and the Handicrafts Design Project, JRF's leading women empowerment project. JRF operates across Jordan (North, Middle, and South), through 8 JRF centers, offices, and showrooms. JRF employs 309 qualified staff with the expertise to successfully manage its operations. JRF is governed by a Board of Trustees that is chaired by Her Majesty Queen Rania Al Abdullah.

**Our Vision**

A Jordan where solutions are home-grown, where the opportunity to prosper is for all, and where the well-being of our children shapes our future.

**Our Mission**

To engage Jordanians to realize their full economic potential and overcome social challenges especially child abuse.

**Our Approach**

Since inception, the Foundation has initiated numerous socio-economic projects for women, children and people who are in need of help which aim to provide employment opportunities that in turn enhance their livelihoods. In tandem, these projects also work towards to enhancing the targeted population knowledge and skills in the production of traditional handicrafts, and in entrepreneurial skills. By integrating and serving community development needs, the Foundation is now recognized nationally, regionally and internationally as an agent for positive change.

## 3. RESPONSES

- The new deadline for receiving questions is Sunday 22 November, 2020.
- **Questions to be sent to** procurement@jrf.org.jo.
- Extended Deadline for receiving quotes via email until **Tuesday 29 November, 2020**
- **Quotes to be sent to** procurement@jrf.org.jo
- Quotations received after the deadline may be discarded.
- Offeror full address shall be provided.
- JRF has the right to cancel, amend or to issue multiple awards for its best interest without prior notice and without any liability.
- Jordan River Foundation accepts no liability to pay for any proposal or other preparatory work undertaken in connection with this RFP.
- **Evaluation will be based on lowest price and technically acceptable criteria.**

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