

**Job Title:** Mechatronics Lab Technical Assistant

**Reporting Relationship:** Makerspace Specialist

**Job Location:** KIC Hardware Center of Excellence, Ejisu, Ashanti Region, Ghana

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### **Introduction**

Kosmos Innovation Centre is a non-profit organization that invests in young entrepreneurs and small businesses. We empower entrepreneurs to turn their ideas into viable, self-sustaining businesses and we work alongside promising small businesses to help them scale and reach their full potential.

Each program is driven by local staff and private sector experts, resulting in a distinctive focus on commercial solutions and local knowledge. Our customized, best-in-class business support programs feature a mix of skills training, mentorship, and seed funding.

Since our inception, more than 1300 young leaders have been trained in business skills and entrepreneurship through participation in our programs. Many of the start-ups formed or incubated through us have secured additional investment and gone on to win other start-up competitions.

### **Equal Employment Opportunity**

KIC is an equal opportunity employer that has zero-tolerance for discrimination on any basis. We actively seek out diverse backgrounds, perspectives, and skills so that we can develop talent and have sustained impact. We are committed to a workplace of respect and psychological safety where equal employment opportunities are available to all. We adhere to safer programming, and we do not engage in or tolerate discrimination on the basis of gender, religion, age, national or ethnic origin, disability, marital status, or any other vulnerable groups in the locations where we work.

### **Safeguarding & Ethics**

We are committed to ensuring that all individuals we meet through our work, whether team members, community members, program participants, volunteers, students, or others, are treated with respect and dignity. We are committed to upholding the Universal Declaration of Human Rights and will not tolerate any form of violence, harm, child abuse, sexual exploitation, or harassment by or of our team members and program participants. As part of our commitment to a safe and inclusive work environment, team members are expected to conduct themselves in a professional manner, respect local laws and customs, and to always adhere to KIC's Code of Conduct policies, safeguarding policy and values.

### **About the KIC Hardware Center of Excellence:**

The Kosmos Innovation Center (KIC) Hardware Center of Excellence is a pioneering, multidisciplinary makerspace designed to empower young entrepreneurs in Ghana by facilitating the development of innovative agricultural technologies. The center comprises specialized labs including Food Innovation, Electronics, Mechatronics, Computer Design, Metal Fabrication, and Woodworking. These labs provide the resources necessary to transform ideas into market-ready solutions, enhancing agricultural productivity and sustainability.

## **Job Description:**

### **Summary**

The jobholder oversees the daily operations of the Mechatronics Lab, provides technically proficient support to lab users, maintains lab equipment, and ensures a safe and productive lab environment.

The role will report to the Makerspace Specialist

The focus of this job is to produce high-quality, detailed technical work following established standards, guidelines, and procedures. The job environment is stable, relying on well-defined processes and known relationships with colleagues. Competency and job knowledge are developed through structured, step-by-step training and positive, supportive coaching from the line manager. This position aims to cultivate a valued technical expert who, with management's recognition and support in a stable work environment, can consistently deliver quality work.

### **Job Responsibilities**

#### Lab Operations:

- Open and close the lab according to the schedule.
- Monitor lab usage and manage lab access for users.
- Ensure the lab is clean, organized, and well-stocked with necessary supplies.
- Foster a welcoming and collaborative environment within the lab.
- Encourage knowledge sharing and collaboration among users.
- Promote the lab through outreach activities and events.
- Ensure all lab activities adhere to safety standards and protocols.
- Conduct safety orientations for new users and enforce safety rules.
- Maintain up-to-date records of safety training and incident reports.
- Perform routine maintenance and calibration of mechatronics lab equipment.
- Ensure all equipment is in good working order and report any malfunctions to the appropriate personnel.
- Maintain an inventory of tools and materials and assist in procurement as needed.
- Collaborate with other lab staff to ensure smooth operations and share best practices.

#### Technical & Project Support:

- Assist users with the operation of mechatronics lab equipment and tools.
- Provide technical guidance and support for mechatronics projects.
- Help users troubleshoot and resolve technical issues.
- Support users in developing and executing their mechatronics projects.
- Provide mentorship and technical advice to help users navigate challenges.
- Track and report on project progress to the relevant stakeholders.

#### Training and Education:

- Assist in developing and delivering training programs on the use of mechatronics lab equipment.
- Conduct workshops and demonstrations to enhance users' technical skills.
- Provide one-on-one training and support as needed.

## Job Characteristics

- The work pace is steady and even to promote accurate and quality work.
- Technical focus work within established systems, standards, and procedures.
- Communication is based on job knowledge and expertise and decision-making is within clearly defined job scope and on pre-defined policies and procedures.
- Leadership style is focused on consistent, accurate, quality support to users of the mechatronics lab
- Ability to handle small components and tools with precision.
- Ability to move around the lab, including bending, reaching, and lifting equipment or supplies (typically up to 25 pounds).
- Ability to stand or sit for extended periods while working on projects or assisting users.

## Job Requirements

- Minimum of bachelor's degree in mechatronics, mechanical engineering, or a related field. Advanced degrees or certifications are a plus.
- At least 3 years' experience operating, testing and maintaining mechatronics machines and systems in a makerspace.
- Familiarity with electromechanical lab equipment, including robotics and automation systems.
- Knowledge of safety protocols and standards relevant to mechatronics labs.
- Experience with Programmable Logic Controllers (PLC)
- Ability to operate and maintain mechatronics lab equipment, perform routine maintenance, and troubleshoot issues.
- Strong analytical and problem-solving skills to assist users with technical challenges.
- Excellent verbal and written communication skills to provide clear instructions and support to lab users.
- Ability to conduct training sessions, workshops, and one-on-one support to enhance users' technical skills.
- Strong organizational skills to manage lab inventory, schedule maintenance, and ensure the lab is well-stocked and orderly.
- Ability to work effectively with a team and foster a collaborative environment within the lab.
- Proficient with Microsoft Office Suite or related software
- Ability to work independently with little or no supervision.
- Ability to facilitate creative learning experiences.
- Passion for innovation and entrepreneurship.
- Experience with agricultural technologies and solutions is a plus.

If you have the expertise as described and are interested in the position of Makerspace Specialist, please click the link below to apply.

Application Link: <https://airtable.com/appOjwdRWpSDU9l6a/pagzsbw1hGUA3K7F8/form>