Intern - Mechanical Engineering

REVIVO BioSystems is an innovative and customer-oriented company aiming to become the leading provider of enabling technologies and services for *ex vivo* and *in vitro* testing of chemicals, ingredients, cosmetic formulations and therapeutics. Our goal is to deliver products and services with unmatched quality, consistency, reproducibility, and ease-of-use. We are on a fast growing trajectory and are looking to expand our organisation to further support the company's expansion, ambitious sales growth, and make the world a more sustainable and ethical place.

We are seeking a highly motivated Intern to join our Mechatronics Engineering team. The successful candidate will be responsible for developing, optimizing, and programming automated testing instrumentation for REVIVO BioSystems' organ-on-a-chip technology. This includes creating advanced mechanical and electrical designs, creating firmware for the control unit and user interface, prototyping next-generation hardware and integrating hardware and software components into a functional prototype for our organ-on-a-chip technology. The intern will also be responsible for maintaining parts and component inventory, maintaining documentation, as well as analyzing and presenting results.

KEY ACCOUNTABILITIES/RESPONSIBILITIES and LEARNING OPPORTUNITIES

- Learn and design mechanical assemblies using GD&T and softwares like SOLIDWORKS.
- Collaborate with the R&D team to develop new prototypes applying design thinking principles.
- Understand and adhere to international standards in the product design process.
- Develop proficiency in microcontroller programming, specifically using C/C++ language.
- Implement serial communication protocols such as RS232 and RS485 and feedback control systems, particularly PID control.
- Methodically maintain documentation and inventory.

MINIMUM REQUIREMENTS – EDUCATION AND EXPERIENCE

- CAD skills, knowledge about GD&T and experience in mechanical assembly, with exposure to software such as SOLIDWORKS being advantageous.
- Experience in rapid prototyping methods such as 3D printing.
- Experience in various fabrication methods and solid understanding of manufacturability.
- Knowledge of microcontrollers and sensors.
- Experience in developing user interfaces, preferably with HMI devices.
- Coding skills in languages such as C/C++.
- An inventive and daring mindset.
- Methodical reporting of progress and tracking changes.
- Effective communication and excellent teamwork skills.
- Organizational skills and ability to pay meticulous attention to detail in handling operations.

This is a paid, full-time internship position. The successful candidate will have the opportunity to work in a dynamic and innovative research environment and to contribute to cutting-edge research in the field of organ-on-chip.