

Electromechanical Controls Intern

Location: Buffalo, NY.

Employment type: Paid internship, part/full-time during the Fall

Experience: Students currently seeking a BS, MS, or PhD in engineering or science (i.e. mechanical, electrical, software, computer) OR graduated with a BS, MS, or PhD within past year with these credentials.

Capro-X background

Capro-X is a sustainable biorefining startup using natural biotechnology to upcycle food and agricultural waste into clean water and carbon-negative replacements for unsustainable chemicals sourced from palm and petroleum. Today, Capro-X is focused on upcycling dairy byproducts into building blocks for beauty, biofuels, and bioplastics. Capro-X recently received investment from SOSV through the IndieBioNYC Program; has been awarded multiple Phase 1 and 2 Small Business Innovation Research awards (NSF, EPA, DOE); selected to impactful accelerators (Carbon to Value Initiative, Heritage Group Accelerator, Swissnex); and won key pitch competition prizes (Rabobank FoodBytes! and Grow-NY).

Job description & requirements

Capro-X is searching for an **Electromechanical Controls Engineer Intern** to join our growing team in Buffalo, NY immediately for the Fall of 2026. The intern will be joining at an exciting time for the company, as we are scaling fermentation-based production towards commercial sales; generating samples for customers in the personal care, bioplastic, and biofuel markets; and developing novel products using our core fermentation-based platform molecule; kickstarting direct-to-customer sales through the website; and optimizing control systems for process units.

The intern will work at our lab in Buffalo, and will be assisting with upgrading bioreactor control systems; designing custom controls for novel experimental setups; and automating data analysis procedures. Our ideal candidate will have independent and/or direct experience with microcontrollers (Arduino, Raspberry Pi, etc) for sensing and controls, wiring for power distribution; comfortable with power and manufacturing tools; experience authoring engineering design documents; clear and effective communication skills; and an ability to multitask.

In this fast-growing startup, the intern will gain first-hand experience in a challenging and dynamic environment – we strive to provide broad experiences that come with joining a growing startup; we're looking for a new team member with deep bioprocessing, chemical engineering, or wastewater treatment interest for their career, a multidisciplinary background, a "get it done" attitude, and share our ambition to bring greater sustainability to the world.

Responsibilities

- Learn current Capro-X bioprocess control scheme; build conceptual, prototype, and user-ready HMIs.
- Specify, design, construct, and commission mechanical and electrical control systems for the bench and pilot scale.
- Specify equipment for custom experimental projects (Arduino, Raspberry Pi, ESP-32) and for industrial applications (National Instruments, Labview, Home Assistant, custom PLC).
- Bench-level power distribution, relay control design and wiring.
- Commission controls equipment, integrate and evaluate on real-world bioreactor systems.

Qualifications

- Experience with designing and manufacturing AC/DC systems.
- Detailed engineering design and documentation for electrical controls (sensors, power supply) (BOD, PFD, P&ID, BOM, 2D/3D renderings, wiring diagrams).
- Experience with AC/DC wiring, basic power controls devices, Arduino/Raspberry Pi, PC and networking components.
- Able to learn on your own, seek out knowledge.
- Strong writing and presenting skills to communicate with team.
- Highly familiar with AutoCAD, MS Office.
- Ability to lift 25 pounds regularly; 50 pounds periodically.

Education and experience level

- Seeking BS or MS in a relevant engineering or science field (for example: electrical, mechanical, etc.) OR graduated within past year with relevant credentials
- Work and academic experience are preferred (previous internship, consulting, independent research)
- Experience with construction and manufacturing a plus.

Equal employment opportunity statement

Capro-X, Inc. is an Equal Employment Opportunity (EEO) employer and welcomes all qualified applicants. Applicants will receive fair and impartial consideration without regard to race, sex, color, national origin, age, disability, veteran status, genetic data, gender identity, sexual orientation, religion, or other legally protected status, or any other classification protected by federal, state, or local law.

Applicants must be eligible to work in the US without restrictions for any employer at any time. As a condition of employment, all selected candidates will undergo Capro-X's standard pre-employment checks, which include but are not limited to a background check regarding criminal history, driver's license, education, and employment.

Capro-X will not accept unsolicited candidate referrals or resumes / CVs from third-party vendors, including recruitment agencies; we will not be responsible or liable for any fees or costs associated with such unsolicited submissions.

Next steps

Interested candidates should submit application materials to hiring@capro-x.com with the following tag in the subject line: **[CPRX controls intern 2026]**. Improperly addressed applications may be lost in automated filters.