Electro-Active Technologies Inc.
Chemical/Electrical Engineering Intern
Knoxville

About
Electro-Active Technologies is developing a new generation of hydrogen production systems combining electrical energy with chemical energy from waste to develop novel sustainable solutions. Electro-Active is focused on getting young students and recent grads startup experience with the potential continuing working with us beyond the internship while working on something that has the potential to have a real impact in the world and help address global challenges around sustainability and climate change.

Intern roles and responsibilities
Electro-Active is developing a new generation of hydrogen production systems combining electrical energy with chemical energy from waste to develop novel sustainable solutions. We are looking to fill 3 positions this summer.

1. Biochemical engineering intern: Assist with reactor operation, performance testing for production of hydrogen from organic waste. Work will involve carrying out designed experiments, and performing various laboratory protocols and procedures.
2. Electrical engineering intern: Will assist with power management systems for renewable hydrogen production via a modified (bio)electrolysis process. This will include development of power supply systems, testing of various designs for electrical energy optimization.
3. Process control engineering intern: Will assist with systems engineering of electrochemical devices for production of renewable hydrogen via a modified (bio)electrolysis process. This will include development of controller systems, hardware development and testing/debugging of the system.

Required qualifications
Have completed or are working to complete a degree in a relevant engineering discipline.

Preferred skills
- Biochemical engineering intern: wet lab experience, knowledge of biological systems.
- Electrical engineering intern: Knowledge of power management and voltage supply and hardware development.
- Process control engineering intern: Knowledge of sensors and process control development, hardware development.