

## **Company Description**

Bionymer makes patented, real time ion sensors that can be used in a variety of applications. The sensors use a polymer that is grown on a metal substrate, and is connected to an electrical box that is equivalent to a cyclic voltammetry kit.

We are currently approaching first sales of our first product and need help to develop other products and increase some of our process automation. We're a small team with one member (the business lead) working remotely and the other (the technical lead) on site in the lab daily. This position would work closely with both the technical and business leads to complete the project tasks.

## **Job Description**

This position would have two primary projects:

### 1) New Sensor Development

There are a variety of use cases that different researchers are looking to use our sensors in. Currently we only have one type of sensor modality that we can supply them with. The intern will be responsible for interfacing with customers to help develop, design, manufacture, and test new types of sensor modalities. This could include interfacing with our hardware supplier to make changes to the data acquisition device that the sensors plug into. Skills used would include mechanical design, chemical deposition, prototype testing, and project management.

### 2) Process Improvement / Automation

Many of the processes that we currently perform, including polymerization and sensor testing, are currently done manually. These are repeatable processes and could easily be automated once they are codified and standardized. The intern will be tasked with coming up with techniques to automate the processes of sensor creation and testing, in order to save the company significant labor time. Skills used in this task would be process engineering, chemical deposition, modeling / 3D printing, and project management.

## **Location**

Bionymer is located at Rev1 Ventures, and has a lab in the back of the building that would be suited for the tasks required. Working from home is also acceptable when not working with the chemicals involved in the polymerization process.