Date: 01/17/2024

**Title:** Engineering Internship Opportunity at Hydropore (Part-Time)

**Start date:** As soon as possible.

**Time Commitment:** Up to 10 hours per week

**Compensation:** $20/hr

**About Hydropore**

At Hydropore, we help produce the lowest-carbon fuels to power the toughest industries and communities on the planet. We do this by developing technology to produce the cleanest, cheapest hydrogen molecule for refining, steel, chemicals, trucking, aviation, and energy storage for remote locations.

Hydropore is pioneering breakthrough two-step water electrolysis technologies that convert intermittent renewable energy into sustainable fuels and chemicals with unmatched energy and cost efficiency.

You will be joining a team innovating across material science, electrochemistry, and mechanical engineering to rethink clean hydrogen production to align with the intermittent nature of renewable energy and customer demand. Having developed our first lab-scale proof-of-concept and validated our target markets, we are now working on developing a practical prototype two-step electrolyzer reactor.

You will be part of an interdisciplinary, rapidly-scaling organization backed by great partners like Philadelphia Gas Works, the National Science Foundation (NSF), New York State Energy Research and Development Authority (NYSERDA), and Newlab.

**Your Role**

Hydropore is looking for a talented student with an engineering background (ideally an MSE, CBE, or MEAM Undergraduate or Master’s degree student with several months of research experience), who will help with the scale-up of electrode materials for our two-step water electrolyzer prototype. You will be working in close collaboration with the technical co-founder. You will help to set up a wet lab with new equipment at Pennovation. You will help to scale up our process for making activated metal fuels. This includes developing a continuous (flow) chemical etching process.
Skills required:

- Metals processing and/or powder metallurgy
- Knowledge and experience handling reactive nanomaterials
- Nanomaterials synthesis (dealloying)
- Experience with the construction of experimental setups, instrumentation, and automatization
- Good communication and collaborative teamwork skills
- An ability to work together to set and meet project goals and milestones

Interested? Contact our CEO Mike: mike@hydropore.com along with your CV.