**Undergraduate Research Project Description – Sample**

**Project:** Optimization of glycerol electrooxidation using high-throughput experimentation

**Start date:** Fall 2027

**Qualifications:** Sophomore or Junior standing; interested in chemical manufacturing, sustainability, and automation

**Project description:** This project will leverage statistical experimentation and high-throughput workflows to develop an understanding of the optimal process conditions for glycerol electrooxidation in membrane electrode assembly electrolyzers. The student will learn programming, electrochemical experimentation, and platform fabrication skills.

**Contact:** Rachel Gaines, rgaines3 (at) Illinois (dot) edu