The UIC Energy Initiative is seeking a student intern to carry out research at SiNode Systems. This intern will work closely with the core research team to maintain a high volume of material production and to advance research initiatives. Interns will be accountable for a variety of day-to-day lab operations.

The intern will be exposed to the entire process of creating SiNode silicon-graphene technology for li-ion batteries. Not only will they be trained to be adept on day-to-day lab operations, but they will also have the chance to advance their independent research initiative. They will also be provided with active feedback and mentoring from the SiNode team, and will work very closely with the core team to maintain optimal production standards. SiNode typically hires full time employees out of its intern pool as well.

**Responsibilities Include:**

* Engage with materials synthesis (wet chemistry)
* Conduct electrochemical analysis
* Interact with characterization of materials
* Accomplish other science related tasks such as preparing literature reviews and crafting technical reports

**Preferred Skills**

* Prior materials research experience in battery materials or energy storage devices (fuel-cells, supercapacitors)
* Experience with graphene or silicon materials a plus
* Capable of collaborating efficiently with a small research team
* Proficient in data analysis using excel
* Meticulous and thoughtful experimenter
* Excellent writing / verbal communication skills
* Quick learner and adaptable to rapid change
* Passionate, ambitious, and personable

**The Ideal Candidate has:**

* Characterization experience with the following instruments: SEM, TEM, XPS
* Proficiency with excel macros
* Coding experience
* Academic research paper writing experience

To learn more about SiNode Systems, visit <http://sinodesystems.com>

The Energy Initiative Intern will be a member of the Sustainability Intern Cohort. The Sustainability Internship Program (SIP) is an initiative through the Office of Sustainability that offers hands-on learning experiences that help achieve the overall mission of greater social, economic and environmental sustainability in the campus community. The program consists of weekly seminars and field outings on a range of educational and skill building topics including: environmental and energy sustainability issues, cultural sustainability issues, institutional challenges and change management, campus structure and administration, campus sustainability programs and job readiness. The SIP requirements include: meeting weekly work plan goals, frequent meetings with project supervisor, attendance at weekly seminars and outings, blog posts and a final poster presentation.

This position is 10 hrs/week during the spring term. Students can receive internship credit hours (student must confirm with their academic advisor). This internship is for the spring with the possibility of continuing in the summer.

Undergraduates from all disciplines are encouraged to apply. Please complete the application form at <http://sustainability.uic.edu/jobs/sustainability-internship-program-2/#HowtoApply>. Once completed, please send resume to Elizabeth Schmidt: eschmi21@uic.edu by 10/29/2015.