STUDENT WORK LEARN JOB POSTING

Green Labs Energy Researcher
Campus + Community Planning (Sustainability and Engineering)

Hours Per Week 20  Salary / Wage $ 20.23/hr
Number of Openings 1  Work Term May 1, 2017 – August 31, 2017

Application Deadline
Please submit via UBC CareersOnline by March 24, 2017
Note that Work Learn eligibility is required to apply for the position.

Organizational Status

With over 400 labs across campus, UBC's research activities require a significant amount of energy, water and materials. Lab buildings consume 49% of campus energy and 24% of campus water. Within Campus and Community Planning, Sustainability + Engineering works collaboratively with the Green Labs Committee to develop and implement programs and initiatives to reduce the environmental impact of the University’s research footprint. Green Labs directly supports the implementation of programs towards achieving UBC’s ambitious sustainability targets and plans as outlined in Place and Promise, the 20 Year Sustainability Strategy, Climate Action Plan, Zero Waste Action Plan, and the Campus Engagement Sustainability Strategy.

This role will be responsible for supporting the Green Labs Energy + Water Program portfolio. The successful candidate will assist in the development and implementation of tools and resources to enhance resource conservation and sustainable behaviours in UBC laboratories. This will include generation of a campus wide laboratory equipment inventory, estimation of electricity consumption, and identification of potential conservation measures and behaviour change targets. This work will inform development of a business case and behaviour change management strategy that aim to reduce UBC laboratory energy consumption.

The main job responsibilities for this position are:

- **Build and evaluate comprehensive laboratory equipment inventory.** The Assistant will systematically collect and evaluate laboratory equipment inventory data. This will include coordinating access to research buildings/facilities, engaging with key stakeholders regarding equipment use, collecting equipment inventory data in laboratories, and data analysis
• **Estimation of plug load energy consumption:** To support development of a business case for behaviour change initiatives and other energy conservation measures, the Assistant will contribute to quantification of laboratory plug load energy consumption using equipment inventory data. Tasks may include, research to identify reported equipment energy consumption data, assisting with onsite equipment metering, and calculation of estimated energy consumption.

• **Identification of savings opportunities:** Using inventory data and energy consumption estimations, the Assistant will contribute to identification of new potential targets for plug load related behaviour changes, as well as opportunities for implementation of other energy saving measures.

**Supervision**

The Green Labs Energy Assistant will report to the Coordinator, Green Labs Energy + Water, Campus and Community Planning. The supervisor will train and orient the candidate to this role, and provide ongoing feedback and mentorship through regular meetings. At the beginning of the term, performance and learning objectives will be compiled by the student and supervisor, who will also conduct an end-of-term performance review.

This position requires a student who can effectively and confidently liaise with researchers and staff as well as be highly self-directed and independent in data collection and decision-making. The responsibilities listed above are moderately complex in nature.

**Position Type**

UBC Vancouver Work Learn Program

**Faculty/VP**

Vice President, External Relations

**Qualifications**

Required and preferred skills are:

- Eligible for UBC’s Work Learn Program;
- Upper undergraduate or graduate student with a passion and commitment to sustainability;
- Excellent analytical and research skills;
- Experience in numerical analysis, Excel spreadsheets, and charting;
- Excellent interpersonal and communications skills; experience working with laboratory stakeholders is an asset;
- Familiarity with laboratory equipment and energy metering are assets;
- Experience with project coordination;
• Ability to work independently, and manage time effectively;  
• Demonstrated attention to detail, ability to prioritize, work effectively and meet deadlines;  
• Enthusiastic, responsible, team player;

Student Learning Components (UBC Vancouver Work Learn Program)

Orientation & Training
1. Orientation resource package – e.g., background documents, web page links, etc.  
2. Kickoff meeting with supervisor to review and discuss job duties, department policies and procedures, working schedule (which is flexible), key Green Labs issues.  
3. Administrative orientation with unit administrative Coordinator, to review IT procedures, workspace information, timesheets and pay schedules.  
4. UBC Lab Safety courses offered by RMS will be required as part of the orientation  
5. Addressing questions or further training needs during regular meetings.

It is anticipated that the successful candidate will gain:  
1. Practical experience with data collection and analysis (including energy consumption and savings);  
2. Knowledge of energy conservation best practices and opportunities in laboratories  
3. A deeper understanding of UBC’s Green Labs program and peer institution equivalents;  
4. Familiarity with community-based social marketing programs for behaviour change;  
5. Experience with project development, coordination and implementation  
6. The ability to communicate effectively with different audiences including operational staff, faculty, students, and professionals.  
7. Opportunity for networking with sustainability professionals, faculty, students, and staff across campus;  
8. Exposure to and experience within a professional office environment at highly complex public institution;  
9. Enhanced leadership and collaboration skills;  
10. Opportunity to explore learning and professional objectives within the position as well as ongoing feedback and regular performance reviews at the end of term.

The Sustainability & Engineering unit is a collaborative, multi-disciplinary working environment, co-located with the Community Development unit within C&CP, which also includes the UBC SEEDS program. The position will involve contact with staff in other units including Energy and Water Services, Risk Management Services, University Sustainability Initiative, and research faculties.

The student will be actively involved in their own work planning, and will be coached on how to successfully manage their working time. The student will also be encouraged to exercise their own initiative in performing their job duties.

UBC Department  
Campus and Community Planning – Sustainability and Engineering
Preferred Degrees/Disciplines
Applied Science / Engineering, Science/Environment/Agriculture

Additional Documents (preferred)
Cover Letter, Writing or Report Sample