Job Posting: 177695 - Position: S26 Software Developer Co-op 177695

Co-op Work Term Posted:	2026 - Summer
App Deadline	02/02/2026 09:00 AM
Application Method:	Through UBC Science Co-op
Posting Goes Live:	01/26/2026 02:58 PM
Job Posting Status:	Approved

ORGANIZATION INFORMATION

Organization	Redlen Technologies
Address Line 1	123-1763 Sean Heights Drive
City	Saanichton
Postal Code / Zip Code	V8M 0A5
Province / State	British Columbia
Country	Canada

JOB POSTING INFORMATION

Placement Term	2026 - Summer
<b> Job Title <b>	S26 Software Developer Co-op 177695
Position Type	Co-op Position
Job Location	Saanichton, BC
Country	Canada
Duration	4 months
Salary Currency	CAD
Salary	4460.0 per month for 0 Major List
Job Description	

About the Company

Redlen Technologies is an innovator in the design and production of solid-state radiation detectors & detector module assemblies. Our proprietary semiconductor production process for Cadmium Zinc Telluride (CZT) materials enables a new generation of higher resolution all-digital imaging equipment for medical and security applications.

Located in Victoria, B.C, Canada, Redlen is a rapidly growing supplier of CZT semiconductor radiation detector solutions. Currently, with over 200 employees and with international demand growing for our industry-leading products, Redlen offers a fantastic opportunity for those interested in making a difference in a fast-paced, high-growth environment. We take pride in fostering a work environment where Science, Technology, Engineering, and Math (STEM) professionals thrive. As an equal opportunity employer we demonstrate that diversity drives innovation, and we are passionate about building a future where every employee contributes to our mission-driven success. Redlen's teams, mirroring the multifaceted diversity of Canadian society, exemplify our commitment to leveraging a wide range of ideas and backgrounds as a driving force for innovation, business excellence, and pioneering advancements in STEM.

The Role: Software Developer Co-op

In this role you will focus on the design, development and maintenance of scalable data warehouse solutions that support enterprise-wide analytics and reporting.

Working with modern database technologies and Python based ETL workflows, the successful applicant will play a key role in building secure, scalable, and high performance data systems that support critical business operations. Throughout the term, the student will gain practical experience in database design, governance, and optimization while collaborating with a skilled engineering team. This role is ideal for students eager to deepen their technical expertise, tackle meaningful challenges, and help

shape robust data solutions in a dynamic, growth focused environment.

Term Deliverables

• Development and optimization of SQL-based relational databases

• Development of Python scripts for ETL processes

• Verification and deployment of programs and systems

Learning Outcomes

• **Database authentication and security:** the student will learn to develop user authentication tools to enable secure access to Redlen's databases

• **Database governance:** the student will gain a basic understanding of database governance, including audit logging and role-based access restriction

• **Query optimization:** the student will become proficient in optimizing database queries for improved performance and robust reporting

• **Database architecture and table structure:** the student will learn how to structure database tables for optimal performance and organization

• **Data pipelines and integration:** the student will gain experience in integrating databases with upstream data sources and software tools

Duties & Responsibilities

Complete several short-term projects that could include the following activities:

Data Modelling and Warehousing

• Contribute to the development and maintenance of scalable data models and schemas.

• Ensure data quality and integrity in the data warehouse

• Implement robust data warehouse solutions, optimized for performance, scalability and usability

Governance and Security

• Adhere to data governance policies are followed and compliance with data privacy regulations

• Monitor data access controls and security protocols and elevate requests when required

ETL Process Development

• Contribute to and support the design, build, and maintenance of efficient and reliable ETL processes

• Extract data from various sources, transform it to fit operational needs, and load it into the final target database

Job Requirements

Education and Qualifications

• Working toward a degree in Computer Science, Computer Engineering, Software Engineering, or related field

• Experience with SQL and relational databases

• Proficiency in Python or similar object-oriented programming languages

• Familiarity with version control systems (preferably Git)

• Basic knowledge of data modelling and data warehouse concepts

• Experience with data cleaning and validation

• Strong preference for 3rd or 4th year students

Skills and Abilities

• Strong problem-solving skills and attention to detail

• Ability to work independently and collaborate in a team environment

• Effective oral and written communication skills

• Strong project and time management abilities

• Demonstrated positive attitude, self-motivation, and commitment to continuous improvement

Citizenship Requirement   N/A

APPLICATION INFORMATION

Application Procedure   Through UBC Science Co-op

Cover Letter Required?   Yes

Address Cover Letter to   Hiring Manager