# Title: Java Web Developer

## Number of Positions: 1

## Length of Internship: 8 to 16 months

## Work Location: Ottawa

## About Us

We are Microbial Biodiversity Bioinformatics group within Science and Technology Branch of Agriculture and Agri-Food Canada (Federal Government). We are a dynamic small team that supports agriculture scientists with the computational side of their research as well as data infrastructure. Our day-to-day tasks range from interacting with scientists to collect their research requirements, to researching and working with novel technologies to create bioinformatics tools and platforms, to installing and supporting grid and cloud computing, necessary for the big data research. Located in the historic Experimental Farm close to downtown Ottawa.

## Project Overview

The successful candidate will be involved in the on-going development of a web accessible database for tracking information related to scientific research in the field of biology.

The development environment consists of the Eclipse IDE and Git version control system on Windows or Linux. The application is run on a Linux server inside the Tomcat web application server.

The successful candidate will gain software development experience with Java programming language, Hibernate and Struts frameworks, MySQL database, automated testing (JUnit) and Git source code management system. In addition, the successful candidate will gain experience working in an Agile software development environment, using web-based project management and issue tracking tool, produce software documentation and learn the science behind the data they will be working with.

## Responsibilities

* Develop, test, integrate, and document web application features.
* Employ the software development life cycle and best practices including version control, bug tracking, issue reporting, and code reviews.

**Educational Requirements**

Minimum 2 years of education in a University program such as Computer Science, Systems Engineering, Software Engineering, or Bioinformatics. A combination of related education and experience may be considered sufficient.

## Required Qualifications

* Knowledge of Java programming language
* Knowledge of any Java Web Application Development Framework (Java EE, Spring, Hibernate, EJB, etc.)
* Self-motivated individual with eagerness to learn
* Ability to work with a multi-disciplinary group of software developers, system administrators, and scientists

## Asset Qualifications

* Experience in Java programming language
* Experience in Java Web Application frameworks (Java EE, Struts, Spring, Hibernate)
* Knowledge of one of the following web technologies: HTML, XML, JavaScript, JSP, XSL/XSLT
* Experience with Git source code management system
* Contributions to Open Source projects

## Minimum Qualifications

* Must be a Canadian citizen
* Must pass the Government of Canada Security Clearance
* Must successfully complete any required training, testing, or orientation courses

## Learning Opportunities

* Learn to develop complex Java web application with MySQL database
* Learn Agile development lifecycle
* Learn version control and issue tracking systems