

JOB DESCRIPTION

TITLE OF POSITION: Mobile App. Developer

POSITION #: IT-124

GROUP/UNIT: IT Digital Innovation and Development

REPORTS TO: Manager, IT Digital Innovation and Development

PRIMARY PURPOSE

Through its services and products, CCOHS advances health and safety in Canadian workplaces, and the physical and mental well-being of Canadians.

The IT Digital Innovation and Development Unit provides information technology support and development for client products and services for CCOHS.

The Mobile App. Developer is responsible for the strategic analysis, design and implementation of assigned applications used to support CCOHS products and services.

	<u>DUTIES</u>	<u>% OF TIME</u>
1.	Analyzes business requirements and client needs, designs, develops and maintains applications. Builds mobile applications to support CCOHS products and services, and external clients.	70%
2.	Conducts research on relevant technologies, and recommends and implements technologies that will support the organizational goals.	10%
3.	Makes changes as necessary to CCOHS and CCOHS hosted web sites infrastructure to ensure continuous improvement of the sites. Tests these changes on a variety of different systems and web browsers to ensure proper functionality.	10%
5.	Documents system structures and processes and any changes to existing systems.	5%
6.	Prepares regular reports pertaining to the above and performs other related duties, as required.	5%

NATURE AND SCOPE OF POSITION

The position reports to the Manager, IT Digital Innovation and Development. Responsibilities for this position will vary and include creating, maintaining and implementing the source code that makes up the application or program. This position will also be responsible for designing prototype applications, determining the program structure, and coordinating application plans with the development team or customer.

The position is expected to participate in the planning of Service Unit and Project Team activities, to ensure that they play an active role in achieving goals and deadlines without causing work overload or imposing conflicting demands. The position must adjust to changing priorities and deadlines and, where possible, notify in advance all relevant parties when time constraints or other challenges arise that require resolution.

Know-How

The incumbent:

- Must understand business requirements, as well as the overall objectives of the product or service, then design and build the appropriate solution.
- Must have knowledge and understanding of the long-term maintenance implications, performance and integration impacts with other systems, and systems' usefulness in achieving organizational goals, in order to design an efficient and effective product or service.
- Is required to have a thorough knowledge and experience in web standards (HTTP, HTML, CSS, XML) and development tools as well as a number of computer languages and applications to be able to select the best tools to develop and maintain CCOHS applications.
- Is required to work with staff at all levels within CCOHS to discuss problems, exchange information, prepare recommendations and provide support and guidance to others in IT Digital Innovation and Development and the other service units.
- Is required to assist and participate in the planning of team activities, to ensure they play an active part in achieving the team's goals without causing work overload or imposing conflicting demands, including deadlines.

Problem-Solving

The incumbent:

- Researches, develops, recommends and implements new software tools and procedures for optimum automation and performance in various delivery environments.
- Interprets and analyzes business requirements and client needs to produce systems that fulfil these requirements and needs.
- Considers response time, database interactions, user interface design, and ease of maintenance in designing applications.
- Troubleshoots software and applications.
- Monitors and evaluates trends and developments in the computer industry and makes use of these to produce better products that respond to the needs of CCOHS customers.

Accountability

The incumbent is accountable for:

- The systems development and maintenance of various web sites and mobile applications, including products developed for CCOHS and other organizations.
- Preparing recommendations for IT Digital Innovation and Development. These recommendations are made to the Manager or appropriate team leader for negotiation and approval.
- The integrity and reliability of assigned applications.
- Producing systems that are maintainable, scalable and flexible to allow for changes in business requirements or client needs.
- Developing and delivering applications that perform well on different delivery platforms.
- Providing architectural expertise, direction and assistance to programmers, programmer/analysts and others (technical leadership).

- Writing the necessary systems documentation to ensure that programmers, programmer/analysts, systems analysts and others can understand and work on the system.
- The successful performance and continuous improvement of products and services within their area of skills and competencies.
- Completing work agreed to within the timeframe established through team plans and under the direction of the Service Unit Manager.
- Adjusting to frequently changing priorities and deadlines, and notifying the affected team leaders and managers should time constraints or other challenges arise that require resolution.

WORKING CONDITIONS

- Physical Effort:** Sitting at computer for long periods of time (6 hours/day). The work is interspersed with non-keyboard activities (reading e-mails, reviewing and analyzing information, preparing reports).
- Physical Environment:** The employee works at a desk and/or a computer workstation with a keyboard and a mouse for the majority of the workday. The workstation and desk are ergonomically set up, with a wrist rest, mouse rest, document holder, task lamp, as required. The lighting meets standards and there are adjustable blinds on the windows as required. The building environmental controls meet general office requirements. Some risk of RMI due to intensity and duration of work unless safe work procedures outlined are followed.
- Sensory Attention:** The work requires close concentration when analyzing data and requirement, debugging software programs/applications, and troubleshooting problems.
- Mental Stress:** The incumbent deals with staff at all levels from different groups with different and conflicting priorities. Detailed work is affected by numerous interruptions.

SPECIFICATIONS

A university degree in Computer Science, Information Systems or Mathematics, or college diploma with concentration in computer technology or an equivalent combination of education and experience.

A minimum of 2 years of professional experience in Progressive Web Application (PWA) development, and experience with Service Worker and Web App Manifest technologies.

Strong proficiency in web standards and technologies such as HTML5, CSS3, JavaScript, web service architecture and web development frameworks such as Bootstrap; expertise in Progressive Web App frameworks such as Vue.js, and Nuxt.

Familiarity with AWS cloud platforms such as S3, CloudFront and GitHub CI/CD workflows.

Experience with either Flutter/Dart in building mobile apps across iOS and Android platforms, Swift on iOS development environment, or Kotlin in Android development environment is desired.

Experience with PHP/Lavarel is an asset.

Understanding of the human interface guidelines and design language used for iOS and Android.

Comfortable using command lines or tools in Unix/Linux operating systems, especially in a virtualized or containerized environment, and working with source code version control systems such as Git. Experience with other operating systems such as Windows and MacOS.

A minimum of two years of experience with relational DBMS such as MySQL or SQLite, and hands-on experience in writing SQL scripts in database-driven development.

Excellent interpersonal and communications (oral and written) skills.