# JOB DESCRIPTION – SOFTWARE ENGINEER: INTERMEDIATE

## PRIMARY PURPOSE OF THIS POSITION

The primary purpose of the position is to analyse, design, develop, implement and maintain software applications according to the business requirements, while maintaining the full application development lifecycle and a high level of coding standards.

## KEY PERFORMANCE AREAS (KPAs)

| Performance area | Responsibility |
|---|---|
| **Design and develop new software solutions** | • Full lifecycle application development.<br>• Designing, coding and debugging applications in various software languages.<br>• Software analysis, code analysis, requirements analysis, software review, identification of code metrics, system risk analysis, software reliability analysis.<br>• Object-oriented Design and Analysis.<br>• Software modeling and simulation.<br>• Front end graphical user interface design.<br>• Software testing and quality assurance.<br>• Integrate software with existing systems. |
| **Implement new software solutions** | • Evaluate and identify new technologies for implementation.<br>• Evaluate, recommend and select 3rd party components which will make the development life cycle shorter and more productive. |
| **Maintain software solutions** | • Performance tuning, improvement, balancing, usability, automation<br>• Support, maintain and document software functionality |

## CORE COMPETENCIES:

- Writing & Reporting
- Applying Expertise and Technology
- Analysing
- Learning & Researching
- Creating and Innovating
- Planning and Organising
- Achieving Personal Work Goals and Objectives
- Entrepreneurial and Commercial Thinking

## EXPERIENCE/KNOWLEDGE & SKILLS

- Minimum of 3 years experience developing C# solutions
- Trouble shooting skills
- Organisational skills
- .NET 4.0 Framework
- C# Programming
- SOAP, XML
- Object-oriented programming (OOP)
- WCF Web Services
- WCF Data Services
- Visual Studio 2010
- Team Foundation Server
- SQL query writing skills
- Experience designing and working with n-tier architectures (UI, Business Logic Layer, Data Access Layer) along with experience with service-oriented architectures (SOA)
- Software implementation best practices
- Software Development Life Cycle
- Experience with formal software development processes and methodologies such as Waterfall, Agile, RUP, SCRUM or MSF
- Design and optimize SQL Server 2008 stored procedures

## QUALIFICATIONS

- Grade 12
- B. Com Computer Science/Software Engineering
- Microsoft Certified Technology Specialist