

## Job Description

---

<b>Job Title:</b>	Enterprise Application Integration (EAI) Developer
<b>Department:</b>	Federation of Students, University of Waterloo
<b>Reports To:</b>	IT Manager
<b>Jobs Reporting:</b>	None
<b>Salary Grade:</b>	USG 8
<b>Effective Date:</b>	August 2019

---

### Primary Purpose

The Enterprise Application Integration Developer (EAI) is responsible for the development & integrations of new and continued efforts around the Federation of Student's purchased/built information systems. The complexity of these efforts encompasses all aspects of the technical infrastructure supporting these applications, including; network and operating systems layer, database layer, programming languages, and delivery methods (e.g. client/server, web), as well as the implementation and support methodologies.

### Key Accountabilities

#### **Develop & Support Applications**

- Participate in the evaluation and selection of programming languages, tools, methodologies, etc...
- Responsible for the programming of applications with thorough testing of development efforts
- Provide clear and thorough documentation and support as required
- Develop stored procedures that conform to specific outputs and performance requirements to support the real time delivery of data for reporting, analytical and operational needs
- Design, develop & maintain business intelligence solutions
- Craft & execute queries upon request for data
- Provide information through reports and visualizations utilizing modern business intelligence tools

#### **Provide robust integration efforts to solve business problems and enhance process for the Federation of Students.**

- Contribute to innovation, solution architecture and application design activities to ensure that solutions adhere to standard, leverage robust technical infrastructure, and are cognizant of evolving industry trends
- Participate in evolving guidelines, standards and consistent processes specific to Application Integration (EAI), Data Integration, API/Services Integration (ESB & API Services Mgmt), B2B/EDI processes, Digital/Mobile Integration, and, Hybrid Cloud integration technologies (iPaaS)
- Contribute to the administration and on-going maintenance of developed solutions

#### **Engage with and key stakeholders to understand business goals while working towards development efforts independently.**

- Work closely with Senior EAI & IT Manager to understand project timelines and department priorities
- Complete development efforts and code fixes in a timely manner while working independently

## Job Description



- Occasionally work within small teams or individually to provide integration solutions to meet requirements

*\*All employees of the University are expected to follow University and departmental health and safety policy, procedures and work practices at all times. Employees are also responsible for the completion of all health and safety training, as assigned. Employees with staff supervision and/or management responsibilities will ensure that assigned staff abide by the above, and actively identify, assess and correct health and safety hazards, as required.*

### Required Qualifications

#### **Education**

- Completion of post-secondary education in field of computer science or equivalent experience

#### **Experience**

- 3-5 years in software development

#### **Knowledge/Skills/Abilities**

- Proficient level knowledge of software engineering and solution delivery methodologies
- Experience with using source control tools for shared code development such as GitHub
- DevOps or similar experience in application monitoring, performance tuning & deployment with the ability to perform basic Windows/Linux server management tools
- Proficient level knowledge understanding with one or more common MVC frameworks such as CakePHP, Ruby on Rails or Django
- Proficient level knowledge of web technologies such as HTML, CSS, JavaScript etc...
- Proficient level knowledge of relational databases such as PostGRES, Mssql & Mysql
- Proficient level knowledge of modern Identity Access Management protocols
- Experience with Microsoft Dynamics NAV/ .NET Framework an asset
- Proficient level of communication and interpersonal skills, both oral and written
- Proficient level of knowledge of project management skills in applications development
- Ability to work independently and with a team depending on the project

### Nature and Scope

- **Contacts:** Internally, communicate with employees in all groups and departments throughout the Feds and at all levels to gather ideas, envision, articulate, update and inform on projects for which the incumbent is the lead or is otherwise accountable. The roles also communicates with other campus departments to collaborate on shared, or similar, development efforts.
- **Level of Responsibility:** The position is responsible and accountable for the overall functionality and maintenance of all developed & integrated applications built or assigned to the role. The position will work towards development and maintenance timelines on projects provided by the IT manager.
- **Decision-Making Authority:** The incumbent is responsible for developing systems as assigned by the IT Manager and Senior Application Integration Developer. Complex issues may require escalation to senior team member or manager.
- **Physical and Sensory Demands:** Minimal exposure to disagreeable conditions typical of an office position. Occasional heavy lifting of hardware for moves/maintenance may be required (up to 20lbs).
- **Working Environment:** Minimal exposure to disagreeable conditions typical of an office position exposed to stress and pressure associated with those responsibilities. The role may be required to work outside normal business hours during certain times of the year to support the organization's needs to accommodate for system failures, upgrades and maintenance.