

Gradworks Internship Number: 520

Company Name: Saskatchewan Government Insurance
Position: Traffic Safety Research Officer
Location: Regina
Number of openings: 1
Wage: \$3,224 (Monthly)
Resume Deadline: May 6, 2010 by 4:00 PM
Start Date: June 16, 2010
End Date: June 15, 2011

Gradworks Intern Development Program

The Gradworks Intern Development Program is designed to provide recent post-secondary graduates with challenging and career-focused positions within our network of Saskatchewan employers. These full-time internship positions of 12 months in length are intended to allow recent post-secondary graduates the opportunity to gain experience and to develop specific career-related skills. To be eligible for a Gradworks internship you must be a recent college, technical institute or university graduate, have little or no relevant work experience in your field of study and be eligible to work in Canada.

Internship Information – Traffic Safety Research Officer

- The Traffic Safety Research Officer will develop a spatially-enabled system for the management of traffic information in Regina and Saskatoon. The new system will include the following components: mapping, analysis, and identification of high-risk intersection and street segments, so that corrective action can be taken to mitigate traffic hazards in these areas. The new system will combine data entry and report generation in Microsoft Access with spatial analysis in ArcGIS.

Responsibilities:

1. Evaluates and customizes a geographic information system (GIS) platform and relational database management system to build the spatially-enabled system and link it to SGI's local area network.
2. Reviews, analyzes, codes (and tests and debugs) GIS software applications using a variety of programming tools and languages.
3. Researches, evaluates, and recommends tools and techniques to support GIS applications, software, and interfaces.
4. Trains internal and external partners on system procedures, usage, and maintenance.
5. Serves as a technical resource on GIS, including providing guidance, troubleshooting, documentation and solutions to business problems.
6. Develops an application for producing reports ranking collision locations (individually/generically) by attributes such as control functions, time of day, age of driver/pedestrian, violations and primary collision factor.
7. Develops the means to identify correlations between collisions and physical components such as roadway design, signal timing, visibility, traffic volumes, and other factors not under control of drivers.
8. Prepares system documentation such as entity relationship diagrams, data flow charts, file layouts, user guides, test plans, and maintenance procedures.
9. Provides data management advice.
10. Completes regular team administrative duties.

Qualifications:

Must be completed a post secondary program in: Geography, Computer Science, or Engineering (civil or computer).

- Thorough knowledge of GIS products (particularly ESRI), techniques, and concepts, including remote sensing and application development and use.
- General knowledge of the geomatics industry and new developments and trends in GIS.
- Working knowledge of a variety of software applications, programming languages and web-based technologies related to GIS (e.g. ArcGIS, ArcMAP, ArcPAD, ArcIMS, and Java).
- Working knowledge of relational databases and concepts such as Oracle, MySQL, and MS-SQL.
- Working knowledge of PC-based applications such as Word Perfect, Lotus 123, and Microsoft Office.
- Basic knowledge of operating systems (such as Unix, Windows, and Linux) and network and client/service environments (such as Novell and TCP/IP).
- Considerable analytical skill in recognizing and defining problems and developing innovative solutions.
- Considerable skill in planning, organizing, and managing projects.
- Considerable skill in providing customer service.
- Excellent oral and written communication skills.
- Proven ability to manage multiple tasks and deliver within defined time constraints.
- Proven ability to develop and maintain effective and supportive working relationships.

Additional Information:

The Gradworks Program supports the values of workplace diversity and employment equity. Applications are encouraged from people of Aboriginal ancestry, persons with disabilities, members of a visible minority and women.

How To Apply:

Please apply through the Gradworks website at www.gradworks.ca using your online cover letter and resume, including references. **Your application will not be considered unless you have submitted both a cover letter and resume. The completion date of your post secondary education must be stated in your resume in order to be considered for the position. Please include the month of completion if your education was completed in the current year.**

Contact Information:

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Website: www.gradworks.ca