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<b>Position Title:</b>	<b>Senior GIS Analyst</b>
Organizational Unit:	Informatics
Division:	Science & Licensing
Location:	Moose Jaw, Saskatoon or Regina, SK
Hourly Rate:	\$32.88- \$41.13 per hour (Classification 8)
Competition #:	WSA-111-2022/2023
<b>Apply by:</b>	<b>5:00 PM February 1, 2023</b>

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**“Need a Career? Just add Water!**

At the Water Security Agency, you'll have more than just a job - you'll build a rewarding career. Whether you're managing water supply, protecting water quality or ensuring safe drinking water, you can be confident that the work you do will help to support a strong and growing Saskatchewan. Become a member of the team that is committed to being the best water management agency in North America.”

**SHORT DESCRIPTION:**

Reporting to the designated Supervisor, an employee in this job will provide Geographic Information Systems (GIS), Remote Sensing/Image processing and other related geomatics expertise and support corporate wide. This employee will also provide expertise in the application of geomatics technology for clients within the WSA.

**JOB DUTIES:**

- 60% Provide expert geomatics related services including, but not limited to spatial analysis, map production, geo-processing, and geospatial imagery processing/analysis; and undertake related work to solve problems and provide value added output for unique and at times, highly complicated, assignments using geomatics technology. Translate spatially related user requirements and technical systems specifications into working, tested GIS applications. Develop detailed programming specifications, writing and/or generating code, compiling and integrating data driven programs and systems as well as interacting with spatial databases and conducting unit tests. Publish and maintain map services and web-based programming, using applicable programming languages.
- 20% Develop and maintain a data repository for use by WSA in accordance with established policies, procedures, and standards including maintaining datasets, conducting quality control processes, converting and loading data onto file servers and/or geo-databases, creating and facilitating the creation of metadata, issuing license agreements, and ensuring data back-up; administer WSA data on the GeoSask Portal website; and process data requests from outside agencies and the general public.
- 10% Serving as an expert resource, provide geomatics related technical support to users throughout WSA; represent WSA on federal, provincial, and internal committees relating to GIS initiatives; and undertake other assignments as required.
- 10% Interpret and edit preliminary, construction, post construction drawings, drawings of record, structural and other drafting assignments utilizing CAD and GIS software ensuring completed drawings are neat, accurate and complete and in accordance with established WSA and/or industry drafting procedures and standards. Customize CAD and GIS software to meet specialized needs; prepare, interpret and calculate as required, maps, graphs, charts and other related materials by combining GIS data sets and/or using geographic positioning system (GPS) navigation software to import survey data and plotting or exporting and interpreting information for incorporation into CAD drawings or GIS maps; convert existing data sets to appropriate formats for GIS implementation; and prepare graphic displays and other presentation material as required.

**SKILL REQUIREMENTS:****Education:**

## Formal:

Degree in Geography, GIS, Environmental Sciences, Planning, Computer Science, Water Resources Engineering or a similar discipline with an emphasis in GIS and other geomatics applications. Specialization through the completion of a Graduate Degree in GIS is preferred.

## Certification:

Eligibility for certification as a Geographic Information Systems Professional (GISP).

## Other:

Valid Saskatchewan driver's license.

**Experience:**

Previous Requirement: 36 months

Advanced knowledge and experience using highly complex geomatics applications including GIS, remote sensing, and related research processes.

Knowledge of relevant programming language and development environments.

Skill in written and verbal communication.

Ability to work under deadlines and train staff.

Ability to establish and maintain effective working relationships with staff, external agencies and the public; and to develop and maintain a positive work-place environment.

On-the-Job Requirement: 36 months

Knowledge of the technical aspects of the WSA's GIS infrastructure.

Experience working with ArcGIS and ArcGIS Pro.

Knowledge of CAD.

Knowledge of relevant legislation, regulations and the numerous statutes under which the WSA operates.

Ability to work within a team environment.

Ability to effectively manage time and work under deadlines.

Ability to set priorities; to supervise staff; and to integrate and apply acquired skills to analyze established procedures to develop, recommend and implement alternatives for increased effectiveness.

**Training Course Requirements:**

Project Management

Advanced ESRI GIS courses

Advanced image analysis courses

**Problem Solving:**

This is a professional job requiring the employee to provide expert technical and administrative services. This employee will be involved in a broad range of geomatics activities. Finding solutions to new challenges by applying known procedures as well as non-traditional or new approaches is common. Liaising with other expert resources and revising or adapting known approaches will also guide activities. At times, the employee will be required to develop innovative solutions to problems using new concepts and untried approaches through investigation and consultation with colleagues in other agencies. The Unit Supervisor is available to provide guidance.

Knowledge and skills are required to be kept current by staying abreast of developments and technological innovations in the scientific field.

**EFFORT REQUIREMENTS:****Physical:**

The exertion of effort required to undertake the job duties for this job involves performing light activities (routinely sitting at a desk and working on a computer for up to two hours at a time). All work undertaken must comply with established corporate protocols and industry Occupational Health and Safety regulations and codes of practice.

**Mental:**

The performance of job duties typically requires periods of unbroken concentration of up to two hours.

**RESPONSIBILITY REQUIREMENTS:****Accountability:**

Long term priorities are established by the Unit Supervisor. This employee will work under general direction and limited supervision with an expectation to be able to establish work priorities, to work with significant independence and exercise considerable discretion and judgment in completing work assignments. This employee will be involved directly in the provision of the final product or service as a member of a team that is providing significant input that is critical to project or decision making. The work performed by this employee is a value-added contribution in aiding others to achieve results.

This employee will provide specialist advice to WSA staff and will actively participate in technical committees.

**Direction of Others:**

This employee has no supervisory responsibility.

**Contact with Others:**

Working with others will involve courtesy and tact as this employee is required to routinely deal with other WSA staff and attend technical committee meetings involving experts from the public and other agencies. This employee regularly provides services as part of a multi-disciplinary team for assignments and/or projects. Certain projects will involve working with other Provincial and Federal agencies as well as NGOs.

**WORKING CONDITIONS:**

This job is performed in an office environment. This employee will travel occasionally to other jurisdiction to attend meetings and training. Overnight stays away from assigned headquarters rarely occur.

**To Apply:**

Internal and external candidates are welcome to apply for this position; however, first consideration will be given to qualified, internal applicants. Please submit a cover letter quoting the competition number above and a detailed résumé to:

Human Resources  
Corporate Services  
Moose Jaw, Saskatchewan S6H 7X9  
Email: [hr@wsask.ca](mailto:hr@wsask.ca) (Preferred method)

We would like to thank all applicants for their interest; however, only those selected for an interview will be contacted. You will be evaluated on the relative degree to which you meet the knowledge, skills, and abilities related to the position assignment.

The Water Security Agency is an Employment Equity Employer and is committed to creating a respectful, diverse working environment.

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