



## **GIS Specialist**

WIWD is in need of an individual to assist in the development of GIS databases to deliver Beneficial Management Practices (BMP) in Agriculture through local GRowing Outcomes in Watershed Program (GROW); primarily in the GIS portion.

GIS specialists will build and maintain GIS databases, and use ArcGIS software to analyze the spatial and non-spatial information in them. Primarily activities may include entering various types of data into GIS databases, such as text or spreadsheet files of latitude and longitude coordinates, tabular data, aerial or satellite imagery, and manual digitizing of paper maps or map images.

GIS Specialist will also analyze GIS data to identify spatial relationships, or display the results of analyzes; review GIS data for precision and accuracy; document the parameters and context of GIS data; perform geospatial modelling or spatial analysis; create thematic maps for environmental and educational purposes.

### Responsibilities:

- Create maps and graphs, using ArcGIS software.
- Updating or integrating a GIS system, which uses Aerial imagery to markup aerial maps.
- Meet with staff to define data needs, project requirements, required outputs, or to develop applications.
- Support staff with the utilization of GIS tools and data.
- Conduct Research to locate and obtain existing databases.
- Gather, analyze, and integrate spatial data from staff and determine how best the information can be displayed using GIS.
- Compile geographic data from a variety of sources including field observation, satellite imagery, aerial photographs, and existing maps and databases.
- Design and update databases, applying additional knowledge of spatial feature representations.
- Enter new map data by direct input of coordinate information using the principles of cartography including coordinate systems, longitude, latitude, elevation, topography, and map scales.
- Prepare metadata and other documentation.
- Operate and maintain GIS system hardware, software, plotter, colour printer, and video camera.
- Move, copy, delete, and add files, drawings, and maps to output reports in hard copy or electronic transfer.
- Present information to users and answer questions.
- Retrieve stored maps.

Qualifications:

- 3-4 years of progressive relevant experience in the GIS field and/or a minimum of a relevant Graduate Degree (you may currently study at a university or college in the areas of Environmental Science, Technology, Engineering, or Math (STEAM));
- unemployed, underemployed or hold part-time employment with relevant experience in GIS field.
- a Canadian Citizen, Permanent Resident, or have Refugee status.
- Students on a work permit or visa are not eligible.
- have a class 5 driver's license and must be between 20-30 years of age

The right candidate will have opportunity to obtain and expand their knowledge and skills by practising:

- Positive, inquisitive attitude with intelligence to learn from others as well as their own growth & mistakes, integration of theoretical knowledge and skills.
- Precision & Accuracy, attention to detail.
- Have very good understanding of basic GIS principles, with some good understanding of principles of mathematics, environment & rural settings
- A knowledge or willingness to learn about Beneficial Management Practices in Environmental industry
- Knowledge or willingness to learn about various provincial and municipal boundaries, as well as Lat/Long.
- Excellent Proficiency in a variety of hardware & software products (MS Office, Adobe, ArcGIS)
- High availability to communicate with team members

Hours are FLEXIBLE; dedication of a minimum 10 – 16 hrs/week is preferred

Salary is depending on Education & Experience.

Please contact us or send resume before November 1, 2020 to:

**West Interlake Watershed District**

9 Main Street

Box 732

Lundar, MB

R0C 1Y0