

Position Type Geospatial Technology Analyst and Project Manager

Company Name: 4DM Inc

Location Toronto, Ontario Canada

Date Posted January 11, 2006 - February 10, 2006

Job Description

4DM Inc. is currently seeking a qualified applicant for the position of Geospatial Technology Analyst and Project Manager to join our team in Toronto. The successful candidate will be directly involved in projects related to strategic consulting, spatial analytics, and application development in the areas of remote sensing, GIS, web mapping, spatial analysis, and data modeling. Areas of business activity of 4DM are diverse, including water management, geobusiness, earth science, and environmental, municipal, and emergency management. As an integral part of our team, you will need to demonstrate solid technical understanding and capabilities in Open GIS technologies (WMS/WFS, MapServer etc.), ESRI (ArcGIS, ArcSDE, ArcServe etc.), web technologies (XML, DHTML, Javascripting, JSP, ASP etc.), programming (Java, VB C++/C# etc.) and Image processing environments (Envi/IDL, PCI etc.). The position also requires strong project organizational, coordination and management skills. You will be directly interfacing between our clients and the team.

Duties and Responsibilities:

As a Geospatial Technology Analyst and Project Manager, your duties will vary with projects. It is anticipated that your role would include but not be limited to the following;

- Analyze complex business, scientific and engineering processes in order to identify, develop, and document user requirements and functional specification;
- Provide Project Management lead and support;
- Design, develop, and maintain geospatial databases, and implement geospatial applications in a scalable architecture;
- Provide technical "hands-on" support and expertise to current team members;
- Conduct client meetings, business development, proposal writing, and internal project meetings.

The successful candidate must possess the following:

Education and Work experience:

- University degree - Science, Engineering, Computer Science, Geomatics
- Domain knowledge in three or more of the following: water resources, environmental, climate, remote sensing, geobusiness, forestry, emergency management, municipal, and earth science
- 5+years project consulting experience

Technology:

- 5+ years experience in Geospatial Technology
- 3+ years technical experience with ArcGIS family products
- 3+years databases Oracle, SQL Server PostgreSQL, Access
- 3+years programming in Java, VB, C++, C#
- Hands-on experience in data model and geodatabases design
- Experience in web development including JSP, ASP, XML, DHTML etc
- Web mapping using Mapserver, ArcServe, WMS/WFS/GML, CGDI/OGC
- Experience with AutoCAD and AutoCAD Map
- Experience in 2/3D Visualization and Data Fusion
- Solid understanding of Use Case Analysis and UML
- Knowledge of Windows Server and Linux environment

Analysis

- Capable of conducting map analysis, geostatistical modeling, and spatial queries
- Modeling and algorithm development for spatial analytics
- Image process and multispectral analysis

Data Sets:

- Working knowledge of industry, provincial, and federal data sets such as LIO data, CGDI framework data sets, CanMap products, Census data sets
- Analysis of remote sensing data – Landsat, LIDAR, Quickbird, digital aerial photography etc.
- Experience is data geometry building, grid, TIN, and raster to vector conversion

Personal Skills:

- 3+ years working experience in project implementation/management and client management is required
- Previous experience is business development and a proposal writing
- Excellent written and verbal communication skills – Fluent in English
- Team-oriented, self motivated and directed along with strong organizational skills

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Applicants must have Canadian citizenship, or valid resident working status.

Resumes must be accompanied with a cover letter.

Resumes will be retained for one year for consideration when future employment opportunities arise.