



321 - Senior GIS Architect / Manager

Seattle, WA

Reply to: send resume and cover letter to 321@redmondsearch.com.

Redmond Consulting is a third party search consultant which operates in the traffic and transportation planning consulting market place. We have been selected to conduct a software development search related to GIS Application Development within Transportation space (GIS-T).

Our client is an aggregator and distributor of traffic data, which they enhance into real time and predictive traffic forecasts. Our client's data cannot only provide highly accurate real time traffic information, but can also accurately predict traffic patterns for short and long term applications (forecasting).

What this means to the individual traveler, to whom this data is free, is that you actively choose your path of least resistance, in real time, making time-saving route decisions while in your automobile. The predictive element of this data can tell you when the congestion on any given route will clear. The forecasting aspect of this data means that, right now, as you read this, you can select the best route for any trip you are planning to take tomorrow.

A variety of inputs are considered in developing these forecasts, including real time information from various intelligent transportation systems (ITS) devices, historical traffic data, event schedules, weather patterns, construction alerts and more.

Distribution channels for this data include web portals, mobile communication service providers, digital mapping services, media outlets, state and local DOTs for purposes of congestion management, emergency responders, and even private enterprise for fleet logistics applications. The data provided is up to 98% accurate.

We are searching for a seasoned Software Architect who has extensive experience with GIS technologies and transportation data sets. Ideally, this individual will have experience managing other professional level personnel, and in doing so will provide both professional and technical leadership.

Job Description:

Work closely with other senior members of the Product Development Team in order to design, implement, and support Intelligent Transportation System (ITS) and Location Based Services (LBS) applications in regards to nationwide traffic flow and incident offerings. This position will also manage a small team of GIS Architects and Analysts.

Primary Responsibilities:

The Senior GIS Architect will assist in providing architectural leadership and implementation guidance for the GIS infrastructure behind our client's nationwide traffic services. The Senior Architect will be expected to work closely with other GIS Architects and senior members of the product development team to design and build the following technology components:

1. The geographical middleware and database components of a system that will provide traffic flow and predictive data based on traffic sensor networks.
2. A proprietary system that incorporates data from GPS sensors located in moving vehicles.



3. An application architecture that will render maps based on our client's traffic system web service.

Much of this development will be based on technology and data that is acquired from vendors of mapping data and GIS middleware.

Skills/Experience

The ideal candidate will have at least 10-years experience as a developer or architect of GIS application software and a current knowledge of industry-standard application development tools, standard software development methodology, relational databases and technology providers.

Detailed understanding of map rendering, data formats, geocoding, route calculations, cartography and coordinate mapping is essential. The individual must be able to interact effectively with clients and team members, manage multiple concurrent assignments across his/her team and perform well in a dynamic team environment.

Desired Qualifications:

- Application and system development experience with GIS development tools;
- Experience with ArcGIS Server or ArcGIS Engine a plus;
- Experience in managing and mentoring at least two or three GIS professionals across a variety of projects;
- At least 3 years preferred experience with object oriented programming using Visual Studio (both 6.x and .NET), VB, C#, and SQL;
- Familiarity working with transportation databases from TeleAtlas, GDT, NavTeq, DMTI, and others;
- Experience with XML and RDBMS, preferably with SQL Server;
- Experience with Linear Referencing, Dynamic Segmentation or Graph Theory;
- Development experience with web-based applications or web services a plus.
- Minimum Bachelor's degree in Computer Science, Geography or related field.

This is an exceptional opportunity to make your mark on a global service which will change the way people commute from point A to point B. Interested parties should inquire through the link provided, or contact Josie Summa at 321@redmondsearch.com or 904-683-7000.