

# Request for Quote

## The City of Alpharetta, GA Requests Proposals for Qualifications for Wireless Broadband Engineering Consultant

The City of Alpharetta, GA  
Two South Main Street  
Alpharetta, GA 30004

RFQ Open Date: 7/12/05  
RFQ Close Date: 7/28/05  
Estimated Vendor Selection Date: 7/29/05  
Estimated Engagement Start: 08/01/05

### **Project Scope**

The City of Alpharetta is a fast growing suburb of Atlanta and includes roughly 22 square miles of hilly terrain. The city has 16 locations with voice and/or data services connected into a wide-area network using fiber, frame and point-to-point circuits. In addition, the city has approximately 80 mobile units using commercial wireless services. The city is interested in considering alternatives to its current wired and wireless services in order to improve services to the city and save money.

This RFQ is for qualifications for a wireless broadband engineering and consulting firm to assist the city of Alpharetta, GA in determining the optimum course of action for a multi-use wireless network through:

- Conducting city asset surveys and land use surveys
- Providing network design alternatives
- Providing technology assessments and recommendations
- Providing budgetary and breakeven estimates

The City has interest in developing and operating a city-wide wireless network(s) capable of providing both fixed and mobile services to public safety, utility and other internal city departments. Various technologies, vendors, frequencies and topologies will be considered as well as associated back-office, funding, business modeling and security issues will be considered in this scope of work.

The city expects the vendor to help determine the optimal wireless technology, provide spectrum analysis services, calculate network capacity requirements, determine high priority and alternate network attachment sites, recommend security options, provide a

frequency review and analysis of existing and potential frequency use in Alpharetta, present network management options, map preliminary network nodes based on site survey, map city structures, residential areas and businesses, and provide financial modeling, grant planning assistance and financial planning options.

The scope of work is expected to last 30-60 days. Once completed, the City may develop an RFP for vendors to respond to.

It is expected that once the RFQ has been closed, a decision to engage a particular engineering consulting firm will take place within 1-3 business days.

Firms will be graded on the following:

- Experience at deploying broadband infrastructure 25%
- Experience in designing wireless networks 25%
- Experience in conducting financial planning and knowledge of budgetary estimates for large networks 25%
- References for similar projects 25%

### **Minimum Qualifications**

The engineering firm chosen must have the following minimum qualifications:

- Over two years experience in designing and deploying wireless broadband networks for municipalities, public safety, utilities or service providers. At least 3 references must be provided.
- Over two years experience in providing wireless broadband business planning services to municipalities and/or service providers. At least 3 references must be provided.
- A proven in-house business modeling tool to assist in demonstrating the savings and overall network and operational costs associated a network of this sort.
- In-house software and hardware tools to both perform site surveys, propagation analysis (PTP and PMP) and produce engineering reports and designs
- Experience in WiFi, pre-WiMAX, licensed PTP links and 900MHz technologies.
- Proven experience performing technology assessment for municipalities and or service providers for the purpose of technology vendor selection.

### **City Participation**

The City will provide both personnel and GIS information to assist in the project including:

- Listing of city-owned structures
- Details of the city's existing wired telecom infrastructure
- Details of the city's existing wireless telecom infrastructure
- On-site assistance in surveying the city with potential use of bucket trucks

- Assist the engineering firm in quantifying the wireless needs of each city department at some high level
- Other duties and responsibilities as agreed to with the engineering firm

### **RFQ Responses**

Email responses to this RFQ should be directed to the following contact:

Robert Mullis  
Technology Director  
City of Alpharetta  
rmullis@alpharetta.ga.us

Any questions regarding this project may be emailed to Robert Mullis by close of business 7/12/05. No telephone calls will be permitted. Any questions received will be compiled, answered and supplied to all interested parties.