

MassGIS Position Announcement
GIS Analyst (contract position)
Start date: November 1, 2016
Application Deadline: October 5, 2016

Background

MassGIS is presently maintaining and continuing to develop the statewide GIS needed to support the Next Generation 9-1-1 (NG911) emergency response system. The mapping for this project includes Emergency Service Zones, address point locations, and a street network; these are linked to tables including a master list of street names and of addresses and of their respective aliases/variants.

Duties

As a member of a small team, you will work on upgrading and maintaining components of a complex master address database in support of NG911. All tasks involve editing or otherwise improving the information in a sophisticated, fully relational address data model (emergency service zones, parcels, structures, streets, street names, address points, and master address list). Specific duties will involve GIS data editing. The editing is sometimes completed directly using ArcGIS capabilities but often involves automated editing using custom tools existing SQL or Python scripts. The work will also often involve significant interaction via phone and email with municipal staff concerning addresses in their community. The position is funded through June 2017 with a high probability of an additional year.

Preferred qualifications

- Bachelor's degree, including at least two semester-long GIS classes.
- At least one year full-time experience using ArcGIS software in a professional environment
- Experience using ArcGIS for editing both spatial and tabular data
- Logical, efficient, organized, and detail oriented
- Strong oral, written, and inter-personal communication skills
- Evidence of ability to learn new concepts and technologies independently

Ideal Background

The ideal candidate will have one or more of the following:

- Experience with creating and/or using a multi-table relational database in a GIS
- Experience creating and applying QA workflows for GIS data
- Experience in working with a street network in a GIS
- Experience documenting complex and technical procedures
- Experience working with data models
- Experience working in municipal government in New England
- Experience with Python and/or SQL

Knowledge Acquired on the Job

Familiarity with a fully-developed complex relational data model for streets, address points, emergency service zones and related data layers; experience with ArcGIS and SQL queries and an ArcSDE/Oracle database ; understanding of NextGen 9-1-1 including terminology and GIS data use; familiarity with MassGIS services and its database and with state government function and organization.

Application Instructions

Two documents are required: First, your combined cover letter and resume (in PDF format and using the file naming convention *lastname_firstname*; e.g. nutting_paul.pdf); second, a short writing sample (one page or less describing an editing or programming task, lab, or GIS class project topic of your choice; this sample may be excerpted from a document you have previously written). The writing sample file format must follow the convention *lastname_firstname_sample*; it may be in PDF or MS Word format. Send both documents to Paul Nutting at paul.nutting@mass.gov. Do not send these files combined in a zip file as your email will likely not arrive.