



## Summer 2013 GIS Internship Opportunity

GeoData Modelers, Inc (GDM) is the GIS contractor to the Aqua America water company Engineering Department in Bryn Mawr PA. GDM manages water distribution GIS geodatabases and intranet viewer interfaces in Pennsylvania, Ohio, and Illinois. GDM is an ESRI certified business partner and we use ESRI ArcGIS Desktop and ArcGIS Server to maintain the GIS. We are currently running the 10.1 version of the ESRI software.

I am looking for an undergraduate (or graduate) student intern to work in Bryn Mawr, PA who has a good aptitude and specific interest in GIS automation and python programming to work for GDM at the water company office in Bryn Mawr, PA. This is a paid internship, the hourly rate is \$17 and there are a total of 320 hours available during June, July, and August 2013.

Here are the specific tasks I would like to accomplish:

- Become familiar with existing ESRI geoprocessing models used for water system data integration and automated overlay processes, improve these models and where appropriate convert these models to python programs.
- Develop python programs to pre-process customer address text files (parse files into address components, create data structures such as dictionaries and lists to store and re-apply data fixes) and perform batch address geocoding to map customer locations.
- Use python to automate geodatabase administration tasks in ArcGIS Server. These include compress, register as versioned, generate replicas, etc
- Use the ArcPy mapping module to automate map book generation and build map templates.
- Participate in testing of Aqua's deployment of GIS to Android tablet devices. We are using ArcGIS Online and will be testing some field data collection of main break and hydrant information.

The intern will work under the direction and supervision of Mr. Joseph Spollen, a ESRI GIS consultant who has specialized in ESRI GIS technology for the past 20 years. The intern will be provided with a computer, ArcGIS Desktop software, and related software needed to perform the work. In addition to gaining hands-on experience with python development the student intern will gain a good understanding of an enterprise level GIS and how GIS is used to support water company business activities.

If interested, email a resume to Joe Spollen by May 17 at [jspollen@geodatamodelers.com](mailto:jspollen@geodatamodelers.com)