



December 8, 2008

GIS INTERNSHIP - - NEW JERSEY AMERICAN WATER

New Jersey American Water (NJAW) is seeking talented Geography & Engineering students to participate in an exciting GIS Internship opportunity at New Jersey's largest water utility. To be eligible, students must have completed at least two resident college level, hands-on GIS courses using ESRI ArcMap software. Students will earn college credit for participation based on local school curriculums. Interested parties should contact your particular school internship coordinator.

The Asset Management team at NJAW has completed a two year long GIS data conversion project. Buried assets covering the entire state were converted from CAD to GIS. Included in this conversion are over 100,000 valves, more than 8,500 miles of water main, thousands of hydrants, and many more features. Asset data is represented by 12 SDE Feature Classes connected in a Geometric Network. Day-to-day operations run the gamut from As-Built data editing, data enhancement, GPS field collection, workflow development, and spatial analysis / geo-processing tasks. NJAW licenses various ESRI products including PLTS, ArcInfo, ArcView, ArcServer, Spatial Analyst, Network Analyst, 3D Analyst, GPS Analyst, AcrPad, and Interoperability.

Sampling of Possible GIS Intern Activities:

- **As-Built Editing**
 - o Interpretation of field drawings
 - o Correct entry of assets into GIS system following *Geometric Network* Rules
 - o Attribution and validation of features
- **Quality Control**
 - o Review of GIS data using custom utilities
 - o Learn, follow, & comment on GIS workflows
- **GPS Collection & Training**
 - o Assist in Collection of GIS data in field
 - o Participate in GPS training programs for field staff
- **Assist in Creation of Book Maps**
 - o 2009 Distribution Map Project
 - Help create book map documents by system
 - Utilize PLTS-MPS Atlas ext. of ArcMap
 - Format indexes & legends
 - QA/QC on proofs (line weights / symbols)
- **Assist Setup of GIS Server Applications**
 - o Assist in map document creation for Server Apps
 - Layer symbolization
 - Scale dependencies, etc.