

Associated Earth Sciences, Inc. (AESI) offers GIS mapping and database services for a wide range of clients and projects. Supporting AESI's geotechnical, hydrogeologic and environmental consulting projects is a graphics department producing maps, boring logs, project specific figures and web applications. AESI works closely with clients to develop information management strategies that best respond to their data needs.

JOB DESCRIPTION:

Associated Earth Sciences, Inc. (AESI) has a current need for a Geographical Information System (GIS) Analyst with a minimum of 3 years of GIS work experience. This position will provide day-to-day support to AESI's Kirkland, WA office and two satellite offices in Tacoma and Mount Vernon. The GIS Analyst performs spatial analysis, map production and maintains web applications.

Duties and Responsibilities will include the following GIS and visualization services:

Data Management

- Research, acquire and update base datasets to support figure production. Data sources include WA DNR and USGS Geology data, County/City critical area and assessor data, WA DOE water resources, water rights and other environmental data.
- Compile geographic data from field observation notes, map markups, satellite/aerial image interpretation, and GPS data.
- Provide quality control / quality assessment of outgoing GIS deliverables

Analysis and Transformation

- Analyze spatial data to incorporate spatial statistics into documents and reports
- Undertake basic and complex desktop GIS analyses and data transformations (e.g., georeferencing, CAD/GIS interoperability, raster analysis)
- Build 3D models/visualizations of terrain, engineering, and scientific data

Figure Production

- Collaborate with project staff to generate 2D and/or 3D maps and figures for reports.

Web Development

- Develop and Maintain Web GIS applications and mobile data collection applications

Essential Personal Skills

- A self-starting highly motivated and goal-oriented individual
- Excellent attention to detail with emphasis placed on quality
- Well-developed interpersonal and communication skills
- Ability to work independently as well as part of a team.

Essential Technical Skills

- Solid foundation in GIS theories and principles relating to geomatics (coordinate systems, projections, transformations), data management and spatial analysis.
- Experience using Esri's ArcGIS Pro to create and maintain databases, layouts, and web services
 - ⇒ Typical map products include Vicinity, Site and Exploration, Geology, Soils, Water Well Locations, Critical Areas, and Water Rights.
 - ⇒ Other products include Slope Analysis, Ground Water Contours, Geologic Cross Sections, Plan Detail.
- Experience working with aerial imagery, LiDAR (raster dem, las and/or csv) and other remotely sensed data formats

Desired Skills & Experience

Minimum Requirements:

- Bachelor's degree in Engineering, Geography, Environmental Science, Computer Science, or related subjects with a focus on Geospatial Information Systems and Geomatics.
- 3+ years of GIS work experience using Esri software and data formats
- Strong familiarity with Whatcom, Skagit, King, Pierce, Snohomish and Kitsap County and Municipality data sources
- Ability to work independently, manage multiple concurrent tasks, and meet deadlines.
- Effective working knowledge of MS office and E-mail systems.

US Citizen

Preferred Experience:

- Experience working with Esri's ArcGIS Pro
- Knowledge of Safe Software FME, Autodesk, Log Draft, Rockworks, Surfer, or Corel
- Knowledge of geologic and hydrogeologic principles
- Knowledge of Washington State water rights

Knowledge of environmental cleanup projects

Environmental Factors and Conditions/Physical Requirements

Enter data into a computer terminal, PC, or other keyboard device requiring continuous or repetitive arm-hand-eye movement.

Remain in a sitting position for extended periods of time.

Perceive color as defined by the Inter Society Color Council-National Bureau of Standards system.

Perform fine hand movements in the accurate use of drafting instruments.

May be required to lift and carry items weighing up to 20 pounds.

Potential for Teleworking: Yes

Travel: No

Shift: Day