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