

Bathymetric Cartographic Analyst

Req ID: SB_BCA_01 – SB_BCA_03

Position Title: Maritime Cartographic Analyst

Classification Requirement: TS/SCI with CI polygraph

Position Description:

Cartographic Analysts Collect, analyze, and interpret geographic information provided by geodetic surveys, aerial photographs, and satellite data. Research, study, and prepare maps and other spatial data in digital or graphic form for legal, social, political, educational, and design purposes. Be involved with the scientific, technological and artistic aspects of developing and producing maps. Present complex information as diagrams, charts and spreadsheets, in the form of conventional maps. Will have extensive work with Geographic Information Systems (GIS). Design and evaluate algorithms, data structures, and user interfaces for GIS and mapping systems Attention to detail is critical. Must be able to balance various projects in a self-driven environment.

Because we serve on a greater team that serves our country, the Cartographic Analyst is required to possess an active Top Secret/Sensitive Compartmented Information (TS/SCI) security clearance and successfully complete a counterintelligence (CI) Polygraph.

Required Skills:

Journeyman

- At least 3 years of relevant cartography experience.*
- Expertise and experience in geography, cartography and Geographic Information Systems (GIS) which includes skill in ArcGIS applications.
- Expertise and experience in creating shapefiles, geo-databases, and features.
- Knowledge of geospatial analysis software suites (GIS commercial software packages such as ArcGIS, ERDAS & SocetSet, including common office software to include spreadsheets and word processing) used by NGA to accomplish its mission.
- Knowledge of digital cartography, image processing, geographical information systems (GIS), geospatial production techniques and NGA digital data formats.
- Expertise in research information gathering for the following sources: Primary legal documents that pertain to the delimitation, demarcation and maintenance of the boundary, including textual descriptions, coordinate lists, reports and accompanying maps, native maps, secondary source maps, and historic maps used for extraction and comparison. Mapping imagery for stereo and mono extraction at various resolutions using digital terrain elevation data sets.
- Expertise in preparing source material for digitizing, attribution, digitizing boundaries from georeferenced and ortho-rectified sources, applying projection, datum, and coordinate transformations, geo-referencing and ortho-rectifying source materials (maps, imagery) and extracting vectors from stereo imagery or elevation data.
- Demonstrated ability to use GIS knowledge and skills to evaluate and merge new bathymetric data updating an existing navigational product.

Senior (in addition to Journeyman requirements)

- At least 10 years of relevant cartography experience.*
- Demonstrated understanding of several NGA products such as Controlled Image Base (CIB1), Topographic Line Maps (TLMs), Digital Terrain Elevation Data (DTED), Shuttle Radar Topography Mission (SRTM), and National Technical Means (NTM) in boundary recovery processes, including data retrieval and storage..
- Ability to analyze imagery and non-imagery source information for application to NGA hydrographic products and databases.
- Demonstrated ability to use GIS knowledge and skills to evaluate and merge new bathymetric data updating an existing navigational product.
- Demonstrated ability to process and clean single and multi-beam echo sounder and backscatter data.

Expert (in addition to Journeyman and Senior requirements)

- At least 20 years of relevant cartography experience.*
- Advanced understanding of NGA products such as Controlled Image Base (CIB1), Topographic Line Maps (TLMs), Digital Terrain Elevation Data (DTED), Shuttle Radar Topography Mission (SRTM), and National Technical Means (NTM) in boundary recovery processes, including data retrieval and storage.
- Demonstrated ability to generate corrections for electronic and paper nautical charts and publications.

* A bachelor's degree in a field related to the support services may count for up to four years of this experience. A master's degree in a field related to the support services may count for up to two additional years of this experience. A doctorate degree in a field related to the support services may count for up to three years of this experience.

SAGE black is an Equal Opportunity/Affirmative Action Employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, pregnancy, sexual orientation, gender identity, national origin, age, protected veteran status or disability status.

Position Locations: Colorado Front Range Area, National Capitol Region, Worldwide

Security Clearance: TS/SCI w/Poly

Business Unit: Intelligence Community

Programs: Confidential

Position Class: Analyst

Position Category: Journeyman to Expert

Virtual: No

Relocation Available: Yes



Work Schedule: Regular and 9/80 available

Full-Time / Part-Time: Full-Time