

Maritime Cartographic Analyst

Req ID: SB_MCA_01 – SB_MCA_03

Position Title: Maritime Cartographic Analyst

Classification Requirement: TS/SCI with CI polygraph

Position Description:

Cartographic Analysts will support the National Geospatial-Intelligence Agency's Maritime Safety Office. Proficiency in acquiring, analyzing, compiling, and disseminating maritime safety information and intelligence to maintain nautical databases to support the List of Lights publications. Work includes referencing source material to update publications, updating and/or writing new entries, submitting work through the Quality Assurance / Quality Control process, and meeting deadlines. 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. May work with Geographic Information Systems (GIS). May design and evaluate algorithms, data structures, and user interfaces for GIS and mapping systems. Attention to detail is critical. Candidate must have knowledge and familiarity with Notice to Mariners. 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.

- Ability to analyze imagery and non-imagery source information for application to NGA hydrographic products and databases.
- Ability to generate corrections for electronic and paper nautical charts and publications

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 compile new editions of electronic and paper nautical charts and publications.

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.

* 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