

## WORK ROLE DESCRIPTION

WORK ROLE: 21AE  
WORK ROLE TITLE: **GEOINT Analyst (Bathymetry)**

### WORK ROLE DESCRIPTION:

GEOINT Analysts (Bathymetry) receive, analyze, and deconflict U.S. and foreign bathymetric data (both digital and analog) for use by the IC and external customers. They populate and maintain data and metadata in the bathymetry database, ensuring the accuracy of metadata pertaining to collection source platforms and depth recording devices.

### COMPETENCIES:

#### Skills

Adaptability	Multi-media Communication	Information Gathering and Research
Building Professional/ Technical Networks	Oral Communication	Quality Assurance
Continual Learning	Policy and Directives	Data Analysis
Creative Thinking	Synthesis	Data Management
Enterprise Perspective	Resource Management	Data Preparation
Exploring Alternatives	Situational Awareness	Depth Measurement Seafloor and Analysis
Influencing/Negotiating	Written Communication	Organizational Representation
Information Sharing	Advising/Consulting	Process Analysis and Improvement
Interpersonal Skills	Customer Requirements and Service Information Dissemination	

#### Knowledges

Analytical Processes and Techniques	Acoustic Sensors	Hydrographic Surveying Principles and Practices
Collection and Tasking Principles	Acoustic Propagation	Hydrographic/Nautical Charting
Data Evaluation Principles	Bathymetric LIDAR	International Hydrographic Office (IHO) accuracy standards
Geographic Information System (GIS) Principles	Data Collection and Accuracy Requirements	ISO Processes and Procedures
GEOINT Doctrine	Digital Nautical Charts	Maritime Customer Database (MCD)
Intelligence Issues	Feature Manipulation Engine (FME)	Seafloor Characteristics
NGA Organization, Missions, and Vision	Grids, Projections, Datum, Coordinates	Seafloor Reference System (SERS)
NGA Products and Services	Hydrographic Data Surveys	

### EDUCATION:

A. *Education:* Bachelor's degree in Geography, Geology, Hydrography, Hydrology, Marine Sciences, Oceanography, Physical Science, Remote Sensing, or a related discipline, or a Bachelor's degree with 30 semester hours of coursework in the above disciplines. Strong candidates will include those with ACSM (American Congress on Surveying and Mapping) certification as an IHO Category B or higher Hydrographer.

-OR-

B. *Combination of Education and Experience:* A minimum of 30 semester (45 quarter) hours of coursework in any area list in option A, plus experience that demonstrates the ability to successfully perform the duties associated with this work. As a rule, every 30 semester (45 quarter) hours of college work is equivalent to one year of experience. Candidates should show that their combination of education and experience totals 4 years.

-OR-

C. *Experience:* Six years of experience in the disciplines of Hydrography or Bathymetry that includes marine surveying, the use of current GIS tools, methods of research and analysis, application of hydrographic or bathymetric principles, or work related to the disciplines listed above. Strong candidates will include those with ACSM (American Congress on Surveying and Mapping) certification as an IHO Category B or higher Hydrographer.

### LICENSES/CERTIFICATIONS:

### ENVIRONMENTAL/PHYSICAL REQUIREMENTS:

Distinguish principal colors and shades/hues of principal colors  
Far visual acuity of 20/60 or better binocular with or without corrective lenses  
Near visual acuity of 20/20 or better with or without corrective lenses