

NOAA COMMISSIONED OFFICER BILLET DESCRIPTION

SECTION 1 - GENERAL INFORMATION

A. Billet Number	7192	B. Billet Title	Remote Sensing Technology Specialist (RSTS)		
C. Grade Requested	O2 - LTJG	D. Type of Submission	ANNUAL RECERTIFICATION		
E. Minimum amount of overlap between incumbent officer/reporting officer for continuity of duties	3 Month				
F. Duty Type	MOBILE	G. Estimated Length of Assignment	3 years		

SECTION 2 - DUTY STATION ADDRESS AND CONTACT INFORMATION

A. Street Address	1315 East West Hwy	B. Street Address	SSMC3 RM 8209				
C. City	Silver Spring	D. State	Maryland	E. Country	United States	F. Zip Code	20910
G. Office	+1 (240) 533-9570	x	39570	H. Mobile		I. Fax	

SECTION 3 - OFFICER EVALUATION REPORTING

A. Supervisor							
1. Name	David M. Gothan	2. Position	Chief, Requirements Branch	3. Grade	O5		
4. Email	david.gothan@noaa.gov	5. Office	+1 (240) 533-9584	x	39584	6. Mobile	
B. Reporting Officer (2nd Level Supervisor)							
1. Name	Christopher M. Kerns	2. Position	Deputy Chief, RSD	3. Grade	O5		
4. Email	christopher.kerns@noaa.gov	5. Office	+1 (240) 533-9574	x	39574	6. Mobile	
C. Reviewer (Normally the Reporting Officer's Supervisor)							
1. Name	Mike L. Aslaksen	2. Position	Chief, RSD	3. Grade	ZP V		
4. Email	mike.aslaksen@noaa.gov	5. Office	+1 (240) 533-9576	x	39576	6. Mobile	+1 (301) 801-9024

SECTION 4 - ACCOUNTING AND ORGANIZATION

Complete as many of the following fields as possible. If in doubt, leave the field blank

A. Organizational Hierarchy - Use common acronyms when possible.						
1. Staff or Line Office	National Ocean Service	2. Office, Center, or Lab	National Geodetic Survey			
3. Division	Remote Sensing Division	4. Branch	Requirements Branch	5. Section or Team	N/A	
B. NOAA Goal/Subgoal			Commerce and Transportation	C. Program		Marine Transportation
D. NOAA Org Code	NL3200	E. NFC Org Code	5410110003020000000	F. Project-Task	C30	

SECTION 5 - PROGRAM, PROJECT OR ACTIVITY OVERVIEW

The Remote Sensing Division (RSD) of the National Geodetic Survey (NGS) provides data and products to support the Coastal Mapping Program (CMP), Aeronautical Survey Program (ASP), and Emergency Response (ER). RSD is divided into three branches. The Requirements Branch, where the Remote Sensing Technology Specialist (RSTS) Billet resides, plans aerial surveys to support RSD's missions, monitors the execution of the surveys, and completes initial data processing. The Applications Branch compiles it and creates products for end users (for example, the national shoreline product for CMP). The Systems and Quality Assurance Branch conducts final QA on the data products and releases them to the appropriate stakeholders.

The RSTS will operate RSD's suite of sensors, which includes airborne digital cameras and Light Detecting and Ranging (LIDAR) systems. Other systems may be used as necessary to support the RSD mission.

This is a mobile billet and will include extensive travel with the crew of a NOAA aircraft, deployed approximately 150 days per year. The officer is eligible for Chief of Party designation upon completion of required syllabus events.

There are numerous opportunities for technical training, as the RSTS must become knowledgeable in advanced technologies.

SECTION 6 - DUTIES AND RESPONSIBILITIES

- Property Accountability Officer - Administer and maintain a system of control and accountability for personal property as prescribed in OMAO's Personal Property Policy #1502
- Property Custodians - Maintain all accountable personal property within your designated area of responsibility as prescribed in OMAO's Personal Property Policy #1502

6A. Description of Duties and Responsibilities

1. Install, calibrate, operate, maintain, troubleshoot, and de-install remote sensing equipment aboard NOAA or contract aircraft to specifically include serving as a qualified crew member aboard NOAA's Hawker Beechcraft King Air 350 aircraft.
 - Communicate with flight crew regarding survey progress
 - Troubleshoot technical issues with equipment and communicate those issues with flight crew and RSD personnel
2. Set-up ground control station and collect GPS data for airborne mission.
 - Ensure proper set up of equipment
 - Maintain equipment
3. Conduct preliminary processing and quality control of GPS and remote sensing data.
 - Process data on a daily basis and ensure quality of GPS, tide, and remote sensed data
 - Provide daily summaries of survey progress via email reports
4. Track the status of all active projects, updating completion status on a daily basis.
5. Plan for field operations.
 - Use tide prediction tools to determine survey opportunities
 - Check weather to determine operational areas
 - Communicate with flight crew about positioning for field operations
6. Conduct post-processing of data in the office to include:
 - Conduct final processing of GPS data
 - Create Project Acquisition Summaries
7. Conduct boresights to produce new calibration files for equipment installations.
8. Provide inputs to maintain Field Procedures Manual and other relevant documents.
9. Assist with initial project planning and other office duties as assigned.

6B. Division of Duties and Responsibilities, Total Must = 100%

Technical + Operational + Leading and Managing + Executive Leadership = 100%

SECTION 6 - DUTIES AND RESPONSIBILITIES (continued)

6C. Resources Managed

1. Human

Does the Officer supervise personnel? Yes No Number of personnel supervised

Grades of supervised personnel

Will the Officer lead people, but has no supervisory responsibilities? Yes No Number of personnel led

Grades of personnel led

2. Fiscal

Will the Officer have budget responsibility? Dollar Amount (K)

3. Assets - Will the Officer be directly responsible for managing Government assets such as ships, aircraft, boats, etc? If so, list the asset(s) below in terms of physical description and when known, replacement value (indicate if estimated):

No

SECTION 7 - LEADERSHIP PREREQUISITES

GRADE	LEADERSHIP MATURITY LEVEL	LEADERSHIP COMPETENCIES NEEDED FOR THIS BILLET
ENS (O1)	Leading Self	<input checked="" type="checkbox"/> Core Values & Conduct <input checked="" type="checkbox"/> Health & Well Being <input checked="" type="checkbox"/> Responsibility <input checked="" type="checkbox"/> Followership <input checked="" type="checkbox"/> Adaptability
LTJG (O2)		<input checked="" type="checkbox"/> Interpersonal Skills <input checked="" type="checkbox"/> Continuous Learning <input checked="" type="checkbox"/> Technical Proficiency <input checked="" type="checkbox"/> Listening <input checked="" type="checkbox"/> Speaking
LT (O3)	Leading Others	<input checked="" type="checkbox"/> Writing <input checked="" type="checkbox"/> Team Building <input type="checkbox"/> Leveraging Diversity <input type="checkbox"/> Influencing Others <input type="checkbox"/> Developing Others <input type="checkbox"/> Execution
LCDR (O4)		<input type="checkbox"/> Decisiveness <input type="checkbox"/> Problem Solving <input type="checkbox"/> Conflict Management <input type="checkbox"/> Customer Focus <input type="checkbox"/> Entrepreneurship
CDR (O5)	Leading Performance and Change	<input type="checkbox"/> Creativity & Innovation <input type="checkbox"/> Human Capital Management <input type="checkbox"/> Financial Management <input type="checkbox"/> Technology Management
CAPT (O6) and RADM (O7/O8)		<input type="checkbox"/> External Awareness <input type="checkbox"/> Strategic Thinking <input type="checkbox"/> Political Savvy <input type="checkbox"/> Vision <input type="checkbox"/> Partnering
Leadership Prerequisite Comments (Optional)		

Leadership Prerequisite Comments (Optional)

The officer should be adept at working in small groups. A disposition to get along with coworkers in close quarters for extended deployments is very important. Ability to communicate effectively and discuss technical topics is a must.

SECTION 8 - OPERATIONAL PREREQUISITES

A. Marine Prerequisites

- Officer of the Deck Senior Watch Officer ECDIS Dynamic Positioning Boat Deployment MedPIC
 Coxswain/OIC HAZWOPER AUV Deployment U/W UAS Deployment Buoy/Mooring Qualified
 Trawl Qualified Longline Qualified Hydro Launch PIC Foreign Port Calls

B. Aviation Prerequisites

- Co-Pilot Pilot Aircraft Commander Mission Commander Instructor Pilot Hurricane Qualified
 Alaska/Wilderness Qualified Flight Meteorologist International Flights UAS Pilot

C. Dive Prerequisites

- Scientific Diver Working Diver Advanced Working Diver Master Diver Dive Master Dive Medic
 Unit Diving Supervisor

D. Additional Operational Prerequisites (security clearances, special training) and Operational Prerequisite Comments (Optional)

The candidate must have successfully completed an initial sea or aviation assignment.

SECTION 9 - PROGRAM, PROJECT, OR ACTIVITY PREREQUISITES

List specific qualifications, knowledge, skills or abilities required prior to reporting to this billet. For example: budget (MARS, CBS); personnel; contracting (COTR, Warrants); Scientific (IHO Category A, scientific papers/publications, GIS); engineering (marine survey, ABYC, ABS, FAA); regulatory (US Code, CFR); information technology (databases, networks, programming).

Officers with a background in hydrography are ideally suited for this billet due to many common concepts and skills between the airborne sensing and hydrographic data collection. Officers with backgrounds in GIS and or Remote Sensing are also highly desired for this position. Strong technical skills and a desire to work with emerging technologies is a plus.

SECTION 10 - LEADERSHIP DEVELOPMENT

GRADE	LEADERSHIP MATURITY LEVEL	LEADERSHIP COMPETENCIES DEVELOPED IN THIS BILLET
ENS (O1)	Leading Self	<input checked="" type="checkbox"/> Core Values & Conduct <input checked="" type="checkbox"/> Health & Well Being <input checked="" type="checkbox"/> Responsibility <input checked="" type="checkbox"/> Followership <input checked="" type="checkbox"/> Adaptability
LTJG (O2)		<input checked="" type="checkbox"/> Interpersonal Skills <input checked="" type="checkbox"/> Continuous Learning <input checked="" type="checkbox"/> Technical Proficiency <input checked="" type="checkbox"/> Listening <input checked="" type="checkbox"/> Speaking
LT (O3)	Leading Others	<input checked="" type="checkbox"/> Writing <input checked="" type="checkbox"/> Team Building <input checked="" type="checkbox"/> Leveraging Diversity <input checked="" type="checkbox"/> Influencing Others <input checked="" type="checkbox"/> Developing Others <input checked="" type="checkbox"/> Execution
LCDR (O4)		<input checked="" type="checkbox"/> Decisiveness <input checked="" type="checkbox"/> Problem Solving <input checked="" type="checkbox"/> Conflict Management <input checked="" type="checkbox"/> Customer Focus <input type="checkbox"/> Entrepreneurship
CDR (O5)	Leading Performance and Change	<input type="checkbox"/> Creativity & Innovation <input type="checkbox"/> Human Capital Management <input type="checkbox"/> Financial Management <input type="checkbox"/> Technology Management
CAPT (O6) and RADM (O7/O8)		<input type="checkbox"/> External Awareness <input type="checkbox"/> Strategic Thinking <input type="checkbox"/> Political Savvy <input type="checkbox"/> Vision <input type="checkbox"/> Partnering

Leadership Development Comments (Optional)

Extensive work in small groups is required and the officer will develop skills that are beneficial when working as a team member. Continuous learning, adaptability, listening, and technical proficiency are key skills to be developed in this billet.

SECTION 11 - OPERATIONAL DEVELOPMENT

A. Marine Development

- Officer of the Deck Senior Watch Officer ECDIS Dynamic Positioning Boat Deployment MedPIC
 Coxswain/OIC HAZWOPER AUV Deployment U/W UAS Deployment Buoy/Mooring Qualified
 Trawl Qualified Longline Qualified Hydro Launch PIC Foreign Port Calls

B. Aviation Development

- Co-Pilot Pilot Aircraft Commander Mission Commander Instructor Pilot Hurricane Qualified
 Alaska/Wilderness Qualified Flight Meteorologist International Flights UAS Pilot

C. Dive Development

- Scientific Diver Working Diver Advanced Working Diver Master Diver Dive Master Dive Medic
 Unit Diving Supervisor

D. Additional Operational Development (security clearances, special training) or Operational Development Comments (Optional)

Chief of Party Designation

Mobile Duty

Aviation Safety - Aviation Policies and Procedures

This billet provides a unique opportunity for a non-aviator to be immersed in an aviation environment. The officer will gain insights into the operational aspects of aviation assignments, giving a more well-rounded understanding of NOAA Corps operations.

SECTION 12 - PROGRAM, PROJECT, OR ACTIVITY DEVELOPMENT

List specific qualifications, knowledge, skills or abilities to be developed in this billet. For example: budget (MARS, CBS); personnel; contracting (COTR, Warrants); Scientific (IHO Category A, scientific papers/publications, GIS); engineering (marine survey, ABYC, ABS, FAA); regulatory (US Code, CFR); information technology (databases, networks, programming).

This billet will develop knowledge, skills, and abilities in the scientific, engineering, and information technology fields.

This billet provides the opportunity to work with state of the art equipment while conducting remote sensing and geodetic surveys in a highly mobile and dynamic field environment. The RSTS will be given intensive on-the-job training to gain proficiency in the work conducted by NGS. Knowledge gained in this billet will be transferable to many assignments as it provides a solid technical background with systems installation, integration, data acquisition, and processing experience. This billet can also lead to graduate studies in applicable fields. The officer will develop knowledge of GIS programs, large computer networks, security, data management, and data sharing through the web.

SECTION 13 - CRITICAL SUCCESS CRITERIA

Provide brief measurable performance goals which would represent successful performance in this billet.

Complete Sensor Operator Initial Qualification Syllabus

- Demonstrate ability to operate RSD sensors without direct supervision
- Perform mission planning, including verification pertinent mission parameters
- Coordinate with Aircraft Commander (AC) or Mission Commander (MC)
- Collect and QA/QC remote sensing data

Complete Mission Commander Syllabus and achieve designation as Mission Commander*

- Perform all aspects of mission planning
- Coordinate with the Aircraft Commander (AC) and flight crew
- Collect and QC remote sensing data
- Oversee installation and removal of scientific equipment
- Communicate appropriately with RSD and AOC
- Make go/no-go decisions based on mission parameters

* Note: The officer is eligible for Chief of Party designation pending completion of Mission Commander Syllabus and designation as Mission Commander.

SECTION 14 - ROUTING, REVIEW, RECOMMENDATION AND APPROVAL

A. Developer's Statement

"I certify that I have written this billet description and certify that it is a true and correct representation of the billet."

1. Signature GOTHAN.DAVID.MICHAEL.1284011283 Digitally signed by GOTHAN.DAVID.MICHAEL.1284011283 Date: 2019.10.09 09:49:22 -04'00' 2. Date 2019-10-09

3. Name CDR David M. Gothan 4. Title/Position Chief, Requirements Branch

B. Supervisor's Statement

"I have reviewed this billet description and certify that it is a true and correct representation of this billet "

1. Signature GOTHAN.DAVID.MICHAEL.1284011283 Digitally signed by GOTHAN.DAVID.MICHAEL.1284011283 Date: 2019.10.09 09:50:03 -04'00' 2. Date 2019-10-09

3. Name CDR David M. Gothan 4. Title/Position Chief, Requirements Branch

C. Reviewing Officer's Statement

"I have reviewed this billet description and certify that this billet is a priority for my Line, Staff, or Headquarters Office."

1. Signature [Signature] Digitally signed by KERNS.CHRISTOPHER.MORRISON.1036922601 Date: 2019.10.09 15:44:19 -04'00' 2. Date 2019-10-09

3. Name CDR Christopher M. Kerns **FOR MIKE ASLAKSEN** 4. Title/Position Deputy Chief, RSD

D. Commissioned Personnel Center Endorsement

"I am the OMAO/CPC Officer Career Management Division representative. I recommend approval of this billet."

1. Signature [Signature] CDR/NOAA 2. Date 31 Oct 2019

3. Name CDR Jeffrey C. Taylor 4. Title/Position Chief, Officer Career Management Division

E. Director, NOAA Corps Endorsement

"I am the authorized representative of the Director, and I approve this billet." **By Direction**

1. Signature [Signature] CDR, NOAA 2. Date 1/2/2020

3. Name CAPT Devin R. Brakob 4. Title/Position Director, Commissioned Personnel Center

Print Form

Submit to CPC (Reviewer Use Only)