The UAS CWN Data Specialist operates in several capacities on an incident, from technical liaison to cartographer to intelligence analyst. While not a GISS position, a strong background in geospatial technology is essential for success. The functions of a data specialist fall within three categories: Spatial Data Management, Intelligence, and Team Interaction.

1. Spatial Data Management – the data specialist manages a significant amount of spatial information before, during, and after each UAS flight. To manage this information, the data specialist:
   a. Acquires, updates, and stores incident data for use in UAS operations, including aviation data such as airspace classification, TFR boundaries, and aerial hazards.
   b. Creates and/or uses file and folder naming conventions for standardized data storage including data disseminated by the incident, UAS data products, and base layers such as roads, surface management, elevation, and imagery.
   c. Publishes data in compliance BLM and or incident standards for accuracy, attribution, and metadata, and uses appropriate technology for distribution and use including NIFC FTP, ArcGIS Online, Avenza, Google Drive, etc. Coordinates with vendor technical staff for file conversion and storage appropriate for use in flight systems, ground control stations.

2. Intelligence Management – information derived from the UAS can be beneficial as real-time situational awareness, as intelligence for tactical planning, or as amplifying information for strategic plans. The data specialist is responsible for integrating and applying the best available technology for reporting UAS products in the following ways:
   a. Monitors and interprets EO/IR imagery and full motion video collected during UAS flight operations, and manages recorded data for retrieval and conversion to intelligence products.
   b. Understands incident plans, goals, and priorities, and develops geospatial intelligence products such as maps, slides, and videos to assist the decision making process by incident planning and operations personnel.
   c. Leverages technological resources to disseminate UAS intelligence
products through methods such as hardcopy (paper maps), digital (email, ftp, text), or voice (phone, radio) communication.

3. Team Interaction – teamwork with the vendor, UAS manager, and incident personnel is a critical component of mission success. During the incident, the UAS data specialist is expected to:
   a. Rapidly integrate into established crew procedures and/or develop procedures for safe and effective employment of the UAS on the incident; and facilitate seamless transition to incoming crew members at the end of an assignment.
   b. Translate and communicate incident requirements for information into technical UAS workflows that may require changes to sensor operation, aircraft positioning, collection techniques, and more.
   c. Utilize effective crew resource management for successful UAS operations in complex, stressful, and austere environments with individuals from diverse agencies and backgrounds.