*Generic Title:	Research Associate 2 HSS	*Job Code / *Job Grade:	086 / 23
*Posting Title:	Remote Sensing Specialist		
*Job Family:	Research Res Support	*Effective Date:	October 1, 2021

*Job Summary
Manage the Yale Center for Earth Observation and support university-wide teaching and research on environmental remote sensing.

Position Focus
The Yale Center for Earth Observation (YCEO) is a teaching and research lab for the Yale community specializing in the use of satellite-based remote sensing. Our workstations have been configured to handle the processing and graphics demands typical in remote sensing. These workstations use high performance video graphics cards and multiple LCD monitors to access data on our dedicated server. This equipment, coupled with the latest versions of the predominant Remote Sensing and GIS software, provide a strong foundation to support the remote sensing needs of the Yale community.

Under the direction of the YCEO Faculty Director, the Remote Sensing Specialist will:
- Manage the daily operation of the Yale Center for Earth Observation
- Maintain and update the YCEO website
- Serve as the primary point of contact across Yale University for faculty and staff, communicating the goals and capabilities of the YCEO
- Oversee the use and maintenance of computers and peripheral equipment
- Support classes on remote sensing applications
- Offer tutorials and workshops on satellite image analysis
- Assist undergraduate and graduate students with remote sensing research

*Principal Responsibilities:
1. Manages user accounts and oversees software licensing and hardware maintenance.
2. Updates the YCEO website content, including news release, FAQs, and project progresses.
3. Maintains 13 workstations (including software and hardware updates), conference area workstation and smart TV, and printers.
4. Works closely with research faculty and students to identify remote sensing opportunities and aspects of study that need to overcome.
5. Refreshes content of class exercises with the latest advances in remote sensing, trains teaching fellows on class materials, supports instructors with lecture preparation, and assists students with class projects.
6. Maintains network file folders with course materials.
7. Creates and publishes (online) written tutorials about remote sensing (data sources, analysis methods, software tools).
8. Provides support to faculty and students in image acquisition, image analysis, archival and reporting.
9. Enhances YCEO data capacity by learning advanced geospatial techniques and software.
10. Participates in university-wide geospatial activities, including In-person and virtual consultations for remote sensing and GIS inquiries, online resources (software guides, data access, techniques) and Yale GIS Day.
11. May perform other duties as assigned.

*Required Education and Experience:
Master's Degree in a related discipline and two years of experience or an equivalent combination of education and experience.

Preferred Education and Experience:
- Proficient in ENVI software
- Experience in satellite image analysis
- Familiarity with environmental remote sensing data products
- Experience in configuring desktop computers and workstations
- Knowledge of satellite data access portals such as EarthExplorer (USGS), Earthdata (NASA), and Copernicus Open Access Hub (ESA)
- Some familiarity with GIS applications
- Familiarity or interest in learning programming methods for raster analysis (R, Python, IDL, Matlab)
- Experience in Google Earth Engine desirable but not required

Skills & Abilities:
- Excellent communication skills and the ability to collaborate in a team environment
- Proven experience training others, as well as supervising the use of a facility and equipment
- Ability to manage and prioritize multiple tasks to ensure their quality and on-time delivery

Required Licenses or Certifications:
N/A

Physical Requirements:
N/A