Opportunity Title: ORNL GIS-based Settlement Mapping Post Master's Associate
Opportunity Reference Code: ORNL16-49-CSED

Organization	Oak Ridge National Laboratory (ORNL)
Reference Code	ORNL16-49-CSED

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Description The Geographic Information Science and Technology (GIST) Group at the Computational Sciences and Engineering Division (CSED) is looking for Post Master Research Associates to support spatial research initiatives with special emphasis in remote sensing and imagery analysis techniques to support population modeling. The work will include imagery/data collection, supervised classification input, pattern recognition to ascertain model accuracy, and verification and validation of outputs. This position would be in support of our Settlement Mapping initiatives to develop accurate data to locate and characterize human settlements. Potential opportunities and guidance for publications and presentations of research in professional journals and to the scientific community will be available and we strongly encourage participation. Appointments typically range from three months to one year subject to renewal upon availability and job performance.

Masters' in geography, geospatial science, remote sensing, imaging science or a closely related discipline with exposure to working with digital spatial data and imagery.

Qualifications REQUIRED:
• Experience with GIS principles and analytical techniques, data management, and visualization.
• Experience with commercial GIS (ESRI products including ArcInfo, ArcView, ArcGIS) is required.
• Excellent communication (oral and writing), organization, and decision-making skills. Strong interpersonal skills and working effectively as a team member are essential.

PREFERRED:
• Experience using commercial satellite imagery is desired but not required.
• Experience with land cover classification
• Experience in or working knowledge of GIS-based programming and application development (e.g., R, Python)
• Familiarity with command line text processing tools

Applicants cannot have received the most recent degree more than five years prior to the date of application and must complete all degree requirements before starting their appointment.

This ORNL Postgraduate Research Associates Program is administered by ORAU through its contract with the U.S. Department of Energy to manage the Oak Ridge Institute for Science and Education (ORISE).

Eligibility Requirements
- **Degree:** Master's Degree received within the last 60 month(s).
- **Discipline(s):**
  - **Computer, Information, and Data Sciences** (16 👁)
  - **Earth and Geosciences** (21 👁)
  - **Environmental and Marine Sciences** (3 👁)

- **Social and Behavioral Sciences** (1 👁)

Affirmation I certify that I have completed coursework towards a degree in science, technology, engineering, mathematics, or a related field.

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