



Republic of the Philippines
Office of the President
Philippine Space Agency



Chief Science Research Specialist

Salary Grade: 24

Item Number: PHILSAB-CSRS-12-2020

Division: Space Data Mobilization and Applications Division

Minimum Qualification Standards:

Education: Master's Degree or Certificate in Leadership and Management from the CSC

Experience: 4 years of supervisory/management experience

Training: 40 hours of supervisory/management training/learning and development intervention

Eligibility: Career Service (Professional) / Second Level Eligibility

Duties and Responsibilities:

- 1) Serve as the Chief of the Space Data Mobilization and Applications Division of PhilSA;
- 2) Administer the budgeting and programming of the activities of the division;
- 3) Lead the processing, analysis, and visualization of spaceborne and other complementary data to yield information for use by the agency and other partner institutions;
- 4) Facilitate the conduct of R&D and other collaborative activities on the theoretical, and practical aspects of data science, engineering and analytics, deep learning and other relevant areas for effective downstream interpretation and utilization of spaceborne and other complementary data;
- 5) Facilitate dissemination of outputs of the scientific research and development and other technical activities in reputable publications and applicable venues;
- 6) Spearhead the application and development of modern and innovative computational tools and techniques for data processing and analysis and contribute to the advancement of fundamental and applied know-how in this area;
- 7) Ensure the integrity and accuracy of information prior to publication, distribution and dissemination;
- 8) Develop proposals with project staff to improve and increase the use of Remote Sensing and data processing approaches;
- 9) Provide mentoring and training of staff and partners in the field to support the improvement of associated field collection processes, particularly for Remote Sensing, and standards of data management across the organization; and
- 10) Develop collaborations to advance the skills parallel to the latest Remote Sensing and processing tools and methods.

Applicants who have all or any of the following background are encouraged to apply:

Educational Background:

- Master's degree in science or engineering with equivalent level qualification in Remote Sensing, data analytics and/or GIS, or alternatively a degree or equivalent level qualification in life sciences, environmental studies, geomatics or other relevant subject with extensive experience in applied Remote Sensing.

Experience:

Technical Skills and Knowledge:

- Proven, substantive experience across a range of remote sensing data/methods, including survey design, disaster response and LULC change analysis, preferably for conservation and/or environmental management purposes
- Proven wide-ranging geospatial data handling, including satellite imagery procurement, data management and manipulation skills

- Strong communication skills, written and verbal, to both technical and non-technical audiences
- Ability to collaborate and network with diverse partners

Behavioural Skills:

- Ability to lead a team of diverse backgrounds and set directions to accomplish the goals, mission and objectives of the organization
- Ability to show initiative, to work independently and as part of a team
- Ability to assess and prioritize tasks effectively to accomplish projects to deadlines
- Willingness to learn and share new knowledge/skills as required

Training Background:

- Leadership, management, and technical trainings in the last 3 years

Competencies:

Essential:

- Demonstrable command of RS data and platforms, e.g., ENVI, eCognition, ERDAS, GEE
- Extensive experience with GIS software - ArcGIS Pro (preferable to Desktop v10x) and/or QGIS
- Programming skills relevant to RS, e.g., Python, IDL, R, JavaScript

Desirable:

- Experience with SAR and LiDAR, particularly from spaceborne platforms (e.g., Sentinel 1 and GEDI)
- Experienced with statistical spatial analyses and modelling
- Competence in other spatial software for applied use of RS outputs, e.g., spatial planning
- UAV deployment design and data processing for RS and other mapping purposes (and associated software)
- Experience with development of webGIS tools



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