

TERMS OF REFERENCE (ToR)

Remote Sensing and Geo Information Analyst

Action Area: AAD – Restoring and regenerating landscapes (SERVIR-HKH)

Strategic Group: SG2 – Resilient Mountain Economies and Landscapes

ToR

About ICIMOD

The Hindu Kush Himalaya (HKH) region stretches 3,500 km across Asia, spanning eight countries – Afghanistan, Bangladesh, Bhutan, China, India, Myanmar, Nepal, and Pakistan. Encompassing high-altitude mountain ranges, mid-hills, and plains, the zone is vital for the food, water, and energy security of up to two billion people and is a habitat for countless irreplaceable species. It is also acutely fragile – and frontline to the impacts of the triple planetary crisis of climate change, pollution, and biodiversity loss.

The International Centre for Integrated Mountain Development (ICIMOD), based in Kathmandu, Nepal, is an international organisation established in 1983, that is working to make this critical region greener, more inclusive and climate resilient. For more information, read our [Strategy 2030](#) and explore our [website](#).

Position overview

The Remote Sensing and Geo Information Analyst position provides an opportunity to leverage satellite data and geospatial technology to address the region's critical environmental challenges, including climate change, natural disasters, and ecosystem degradation. This is an excellent prospect to harness your expertise in Earth Observation (EO) and climate modelling, pioneer innovative solutions for managing ecosystems, mitigating carbon emissions, and addressing other environmental concerns.

The Analyst will be working under ICIMOD's Action Area D (AAD): Restoring and Regenerating Landscapes, supporting initiatives in restoring and regenerating landscapes, and facilitating improved land management practices and sustainable development efforts.

The Analyst will also support the SERVIR-HKH Chief of Party through the SERVIR-HKH Initiative. SERVIR is a global network of hubs that use satellite data and geospatial technology to address critical environmental and development challenges. SERVIR-HKH is a joint initiative of ICIMOD, USAID and NASA working on developing information services using EO and climate modelling technology. The Analyst's reach will therefore extend beyond the HKH region, contributing to international endeavours aimed at leveraging technology for sustainable development while also empowering local communities to effectively address environmental challenges.

Responsibilities

The Remote Sensing and Geo Information Analyst will be responsible for delivering results in line with the commitments we have made in our [Strategy 2030: Moving Mountains](#) and our [Medium-Term Action Plan V \(2023–2026\): Embracing Change and Accelerating Impact](#).

- Research, collect, and integrate data from various spatial and non-spatial sources
- Develop analytical workflows for satellite image processing, including high resolution optical and SAR images, and integration with other datasets from multiple sources
- Perform spatial analysis, develop models for data analysis to support studies in relevant field of applications, specifically - land use land cover, forest fire, ecosystems and carbon monitoring and management
- Design and conduct fieldwork as required
- Develop and organise capacity building programmes to provide formal and on-the-job training to users on the applications developed
- Engage regularly with key partners and stakeholders for implementation of the work plan
- Prepare documentation, including reports and methods of analysis

Person specification/competencies

ESSENTIAL

- MSc in Geoinformatics or related subjects with at least three years of relevant work experience
- Proven experience in remote sensing and spatial analysis, related to land use land cover, forest and other ecosystem applications, especially to identify priority areas for landscape restoration and management
- Experience in developing scripts for automatic processing of remote sensing and geospatial data using python, java scripts or other relevant tools

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- Content knowledge: Knowledge on EO and geospatial information applications in the context ecosystem management; wetland and rangeland management; weather and climate change, including monitoring of ecosystem dynamics and ecosystem health
- Report writing: Ability to contribute to the preparation and consolidation of reports and publications
- Management and coordination: Ability to work independently for analysing and processing geospatial data
- Networking and stakeholder management: Maintain existing networks with strategic institutions, and effectively communicate with stakeholders
- Result and impact orientation: Proactively generates concrete results
- Teamwork and cooperation: Ability to work smoothly and effectively with others in intercultural teams to establish constructive ideas or solutions that meet the team objective

- Continuous improvement and innovation: Ability to easily adapt to changing contexts, technologies, and approaches, and when necessary, make improvements in own work area
- Impactful communication: Demonstrates active listening skills and is able to explain and discuss complex ideas

Reporting and supervising

The Remote Sensing and Geo Information Analyst will work under close supervision of the Chief of Party SERVIR-HKH and will report to the Action Area Coordinator of AAD: Restoring and Regenerating Landscapes.

Location

You will be working in a cross-cultural, impact-oriented environment at ICIMOD's head office in Kathmandu, Nepal. Travel in the HKH region will be required. Kathmandu is a lively and exciting place to live. People are friendly, living costs are comparatively inexpensive, food is delicious (with a range of local and international cuisines), and there are good local and international schools and a low crime rate. Nepal offers amazing trekking trails, white water rafting, and safaris, combined with a rich culture and charming yet lively nightlife.

Duration

Two years with a probation period of six months. There is a possibility of extension subject to performance and ICIMOD's future funding levels.

Remuneration

This is an international position at ICIMOD. The starting annual gross salary for this position is USD 16,320/- (negotiable based on experience and qualifications). Gross salary comprises of basic salary, provident fund, family/post adjustment allowance, and child/dependency allowances. Salaries and benefits at ICIMOD are competitive compared with other international organisations. We offer a comprehensive benefits package which includes insurances (medical, life and accidental), children's education grant for maximum 2 children below 18 years of age, severance pay, paid leave (30 holidays and 10 public holidays per year) and day care facility.

For expatriates, there is a tax exemption in Nepal; they are responsible for their home country's tax payments. Expatriate staff are entitled to housing allowance, annual home leave ticket, shipment of personal effects, and an installation and repatriation allowance.

ICIMOD's core values

Our core values are integrity, neutrality, relevance, inclusiveness, openness, and ambition. These values are an expression of our culture and are central to the guiding beliefs and principles of our work and behaviour. Our core values will lie at the heart of ICIMOD operations and delivery. They will underpin everything we do and frame how we work with our partners. They reflect our founding intentions and the balances we seek to hold, while equipping ourselves for the future.

Diversity, equity, inclusion, and safeguarding

ICIMOD's human resource selection process is based on the qualifications and competence of the applicants. As an employer, ICIMOD is committed to promoting diversity, equity, and inclusion, and offers equal opportunities to applicants from all backgrounds and walks of life, including but not limited to gender, age, national origin, religion, race, caste, ethnicity, sexual orientation, disability, or social status. ICIMOD strongly encourages applications from all eligible applicants, especially women, from all parts of the HKH region.

ICIMOD is dedicated to establishing and upholding a safe and nurturing work environment, where all its employees can participate fully and meaningfully without fear of violence, harassment, exploitation, or intimidation. Any type of abuse or harassment, including sexual misconduct [including child abuse], by our staff, representatives, or stakeholders is not condoned or tolerated.

Method of application

Applicants are requested to apply online before **6th June 2024** (11:59 PM Nepal Standard Time) through [ICIMOD Vacancy Application Portal](#).

Only shortlisted candidates will be notified.