



Job Specification: Global Remote Sensing Manager

Department:	Programmes / PQT / PIM
Scale:	PSM 4
Line managed by:	Head of Programme Information Management
Responsible for line managing:	Not applicable
Location:	Home-based, with up to 50% travel

MAG’s Vision is a world in which everyone can live free from the enduring and devastating consequences of armed violence, conflict and their legacy. People will live in communities where their rights are upheld, with dignity and choice and free from fear from mines, explosive remnants of war (ERW) and the impact of small arms and light weapons and ammunition.

MAG’s Mission is to save lives, ease suffering and enable sustainable development by limiting the causes and addressing the consequences of armed violence and conflict so people can live with dignity and choice, free from fear. We will use our core skills and distinctive competence to save lives through the removal of mines and ERW, and reduce the impact of small arms, light weapons and ammunition on people and communities. How we do this is as important as what we do – we work primarily with and for communities, for us ‘it’s all about people’.

MAG’s Values: Our values come to life through our actions, every day. How we act has an impact on others. As someone who works at MAG, you can help to create a positive culture by demonstrating our values through your own behaviour and actions. Everyone has a role to play in shaping our culture. Everyone should understand our values and is encouraged to think how they are relevant to their individual role.

- DETERMINED** - we work with purpose.
- EXPERT** - through excellence and expertise we build trust.
- INTEGRITY** - we strive to do the right thing.
- COMPASSION** - people come first in everything we do.
- INCLUSIVE** - we are inclusive, and we value diversity.

Job Purpose:
In response to the growing potential of remote sensing technologies in Humanitarian Mine Action (HMA) and Weapon and Ammunition Management (WAM) operational contexts, the Global Remote Sensing Manager (GRSM) will focus on developing practical, cutting-edge methodologies and tools that enhance operational efficiency, decision-making, and situational awareness across MAG’s programs. The GRSM will lead research and development initiatives to advance the use of Earth Observation (EO) data and drone-based solutions in HMA and WAM operations, while also integrating environmental considerations where relevant. Additionally, the GRSM will play a key role in building partnerships to enrich MAG’s theoretical and empirical practices.



Job Description

As the GRSM, under the supervision of the Head of Programme Information Unit, you will be responsible for:

1. Project management

- Plan and oversee remote sensing projects, ensuring objectives, budgets, and deadlines are met.
- Coordinate internally to understand user requirements, propose and deliver appropriate products and solutions to improve operational efficiency and decision-making.
- Collaborate with internal and external stakeholders to identify research needs, design studies, and implement solutions addressing environmental considerations in HMA and WAM projects.
- Identify key projects and propose scientifically grounded protocols.

2. Satellite imagery projects

- Develop MAG-specific use cases for Earth Observation (EO).
- Design and document procedures for effective use of satellite imagery in HMA and WAM contexts.
- Conduct independent projects using satellite and drone imagery, including the definition of protocols.
- Identify the most appropriate remote sensing platforms (satellites, drones, radar, LiDAR) and sensors for Each project, ensuring data quality and relevance.
- Process and analyze remote sensing data to generate actionable insights that support operational decision-making.

3. Drone projects

- Develop MAG-specific use cases for drone applications.
- Design and document procedures for safe and effective drone operations in HMA and WAM contexts.
- Continuously evaluate and integrate emerging drone technologies and best practices to optimize operational outcomes.

4. Partnerships & Collaboration

- Build and maintain partnerships with external stakeholders, including GIS specialists, scientists, research institutions, and technology providers.
- Contribute to partnerships that enhance operational efficiency, support R&D initiatives, and promote innovation in EO and drone applications.

5. Documentation, Reporting & Communication

- Provide guidance on hardware and software selection.
- Develop procedures, training materials, and implementation monitoring tools.
- Ensure detailed project documentation for replicability and accountability.
- Prepare technical reports, presentations, fact sheets, maps, and publications documenting research findings, methodologies, and recommendations.
- Translate complex remote sensing data into clear, actionable information for non-specialists.
- Lead and contribute to scientific publications and conference presentations.

6. Capacity development

- Assess team skills and structure to identify capacity-building needs in relation with remote sensing.
- Provide training, mentorship, and support on best practices and software tools to junior staff and partners.
- Contribute to broader organizational capacity-building efforts in remote sensing and GIS.

7. Technology & Innovation

- Stay current on emerging remote sensing technologies, software, and methodologies.
- Implement new tools and techniques to improve data quality, operational efficiency, and innovation in R&D projects.

Other responsibilities

- Perform any other tasks required to support MAG's mission.
- Travel worldwide is estimated at 30% (up to 50% in certain periods).

All staff are expected to undertake the following general duties:

- Work within the framework of MAG's core values, promoting its ethos and mission statement.
- Work towards achieving department business plan objectives.
- Ensure familiarity with and adhere to all MAG policies and procedures and keep informed of MAG activities.
- Undertake and apply learning from appropriate training and development programmes.



- Travel overseas, sometimes to developing countries and areas in conflict, as and when required.
- Undertake the role in a manner appropriate to the cultural context and within the local legal framework.
- Understand and uphold the standards outlined in MAG's Safeguarding Framework, acting with due care and attention to safeguard the wellbeing of anyone that comes into contact with MAG's work and reporting concerns if they do arise.

This is a non-contractual document that can be varied from time to time as circumstances dictate. This job description is intended to summarize the main duties and responsibilities of the post; this is not intended to be a full and exhaustive list of tasks. All MAG staff are expected to demonstrate flexibility and willingness to perform appropriate tasks when the need arises.

Some Job Descriptions may be supplemented by specific Terms of Reference

Person Specification

Essential Experience

- Senior experience in remote sensing, GIS, or geospatial analysis, preferably with applications in humanitarian, defense, or environmental contexts.
- Hands-on experience with satellite and aerial imagery analysis, including image classification, change detection, land cover mapping, vegetation indices, and risk mapping.
- Proven track record of leading or managing remote sensing and drone projects, including the development of operational use cases and SOPs for EO and drone technologies.
- Experience applying machine learning and advanced analytics to satellite and aerial imagery to derive actionable operational insights.
- Experience in collaborating with international partners, NGOs, or research institutions.
- Strong ability to prepare technical documentation, reports, publications, and presentations, including conference presentations and peer-reviewed articles.

Essential Aptitude

- Strong analytical and problem-solving skills.
- Ability to work independently and proactively in complex operational contexts.
- Excellent communication and interpersonal skills, capable of translating technical data for non-specialists.
- Adaptability and willingness to travel internationally in challenging environments (up to 50% travel).
- Strong commitment to innovation, operational excellence, and environmental considerations in HMA and WAM contexts.

Essential Technical Skills and Knowledge

- Proficiency with remote sensing platforms (satellites, drones, LiDAR, radar) and GIS software (e.g., ArcGIS, QGIS, ENVI, ERDAS Imagine) for data processing, analysis, and visualization.
- Proficiency in satellite imagery data sources, including both commercial and open-access datasets.
- Proficiency in **machine learning techniques** for geospatial data analysis, including image classification, feature extraction, and predictive modelling.
- Understanding of drone technologies, safe operational procedures, and regulations.
- Proficiency in English is required.

Qualifications

- Master's degree in Geography, Geospatial Science, Remote Sensing, Environmental Science, Engineering, or a related field.



- Formal training or certification in drone operations is desirable.
- Knowledge of international standards and best practices for HMA and WAM operations is desirable.

Other skills and Knowledge

- Ability to translate complex spatial data into actionable insights.
- Strong skills in technical report writing, data visualization, and presentation of findings.
- Ability to plan, execute, and monitor complex projects with multiple stakeholders.
- Experience developing protocols, SOPs, and operational guidelines for field applications.
- Experience building and maintaining partnerships with technical experts, research institutions, and external organizations.
- Capacity to coordinate cross-functional teams and align R&D initiatives with operational goals.
- Experience in mentoring, training, and building technical capacity in teams.
- Up-to-date knowledge of emerging remote sensing and drone technologies.
- Ability to implement innovative methods to enhance operational efficiency.

Signed employee:	Date:
Signed manager:	Date:

November 2025