TEMPORARY APPOINTMENT: Innovation Specialist (Drones and Data for Development)	
UNICEF Malawi is seeking to engage a temporary appointment to provide technical support and leadership in the development and scaling of new and promising solutions using drones, geospatial mapping and innovative data for developing solutions to the most pressing problems facing children, in line with UNICEF programming priorities and Government efforts to strengthen national systems and improve results for children across the key social sectors, especially in humanitarian settings and emergency responses.	
Engagement contract	Temporary Appointment
Post Level	P3
Location	Lilongwe, Malawi
Duration	364 Days
Supervisor	Innovation Specialist（**Technology for Development**）
Funding details	**2690/A0/06/880/006/002 (RR)**
	Valid until 2023/12/31 with balance allocated from RR in 2024

1. ORGANIZATIONAL CONTEXT

The fundamental mission of UNICEF is to promote the rights of every child, everywhere, in everything the organisation does — in programs, advocacy and in operations. The equity strategy, emphasising the most disadvantaged and excluded children and families, translates this commitment to children's rights into action. For UNICEF, equity means that all children have an opportunity to survive, develop and reach their full potential without discrimination, bias, or favouritism. To the degree that any child has an unequal chance in life — in its social, political, economic, civic, and cultural dimensions — her or his rights are violated. There is growing evidence that investing in the health, education, and protection of a society's most disadvantaged citizens — addressing inequity —will not only give all children the opportunity to fulfil their potential but also lead to sustained growth and stability of countries. Therefore, the focus on equity is so vital. It accelerates progress towards realising the human rights of all children, which is the universal mandate of UNICEF, as outlined by the Convention on the Rights of the Child while supporting a nation's equitable development.

Strategic office context: The overall goal of the UNICEF Malawi Country Programme of Cooperation, 2019-2023, is to contribute to the Government of Malawi's efforts to implement and decentralise policies related to children, focusing on the most disadvantaged and deprived, to have their rights progressively respected and fulfilled so they can survive, grow and develop to their full potential in an inclusive and protective society. The country programme is aligned with country and UNICEF regional

and global priorities and is expected to contribute to the Malawi Growth and Development Strategy (MGDS) III, 2018-2022, and the United Nations Development Assistance Framework (UNDAF), 2019-2023, while concurrently working toward the achievement of the Sustainable Development Goals (SDGs).

UNICEF Malawi Country Office (MCO) identified innovation as an essential strategy to deliver results for children. Given the current and emerging programming environment and the critical need for real-time, reliable and quality data systems during emergencies for disaster risk reduction and planning, and for development and system strengthening, MCO has committed to streamlining the use of drones and innovative data solutions using drones and other technologies to support ongoing UNICEF and Government efforts to strengthen national systems and improve results for children across the critical social sectors. MCO is enhancing technology and non-technology-enabled data- and technology solutions for improved service delivery. This ranges from planning, deploying and providing quality assurance to the assessment of Data for Development (D4D) gaps, opportunities and scale-up strategies that may be required in support of the MCO Country Programme Document (CPD) priorities.

UNICEF has identified drone technology and drone-based services to strengthen and improve its work in global health, education, child protection and community resilience. The aim is to understand these opportunities better, develop key considerations for using drones, and craft a practical way forward for UNICEF to leverage this technology to protect and advance children's rights. MCO has established a drone corridor and the African Drones and Data Academy to use drones for humanitarian and development purposes. These platforms provide new opportunities for data collection, stakeholder engagement and youth capacity building.

2. PURPOSE OF THE JOB

Under the supervision of the Innovation Specialist (Technology for Development), and in coordination with the Office of Innovation Unit at NYHQ and the Regional Office where applicable, the incumbent is responsible for managing and coordinating the drones and data for the development portfolio to provide technical and strategic coordination to the drone-related programmes (with a focus on data for development).

3. KEY FUNCTIONS, ACCOUNTABILITIES AND RELATED DUTIES/TASKS

Summary of key functions/accountabilities:

a) **Strategy Development:**

- In collaboration with the Programme team, develop and execute the engagement strategy for Unmanned Arial Vehicles (UAVs) as a priority frontier technology area.
- Identify and monitor new trends in innovation, the use of drones and data for development for exploration, capturing where relevant, for internal learning.
- Design, develop and manage a strategic roadmap for UAVs to apply to organisational and country programme and humanitarian needs and external trends in the use of technology in development.

- Identify and coordinate financial and technical resources required to meet the organisational need for continuity, sustainability, scale-up and knowledge management.

b) **Technical support to the programme:**

- Project manage and support UAV initiatives and emergency technologies supported by UNICEF.
- Support pilots related to UAVs with proof of concept and case studies for institutionalisation, scale-up and lessons learned.
- Work closely with relevant partners to support the development of new UAV initiatives.
- Identify and support opportunities to leverage drone technology in collaboration with Programmes and Operation teams, with particular reference to humanitarian/emergency response opportunities.
- Develop and make available technical standards, toolkits and other relevant capacity-building tools, with a focus on Digital Public Goods for the country office and partners as required
- Act as a focal point on relevant internal and UN-wide working groups on using technology for data and other programme purposes.

c) **Advocacy and partnership building**

- In close collaboration with the communications and partnership teams, identify partnership opportunities and manage collaborations, particularly with the Malawi Civil Aviation Authority.
- Lead any external representation with technical partners and platforms relevant to this role, including for advocacy purposes.
- Develop MCO's key messages and engagement platform to shape UAV-related technical standards and practice among private sectors, government partners and other relevant stakeholders.

d) **Capacity Building:**

- Build the capacity of programme staff and partners on digital development, appropriate use of frontier technology and innovations such as drones and data visualisation techniques and analytics tools.
- Build and sustain effective close working partnerships with government counterparts and national stakeholders through active sharing and transfer of knowledge, skills and tools to foster and facilitate technology-enabled programming.

4. **Impact of Results**

The key results of this position contribute to the achievement of new and innovative data solutions for children. This role will specifically provide leadership to solve children's problems at scale; and provide a cost-effective solution to capturing and using data for development. The use of drone technology will be demonstrated in a supportive and enabling legislative and regulatory environment to ensure others also benefit from technology-driven solutions.

5. **QUALIFICATIONS**

Education:
- An advanced university degree (Master's or higher) in engineering, physics, aeronautics, business administration or other relevant fields.
  A first University Degree in a relevant field combined with 2 additional years of professional experience may be accepted in lieu of an Advanced University Degree.
- Specific coursework or training on Drones/UAV technology will be an advantage.

Experience:
- A minimum of five/seven years (depending the level of qualifications) of relevant professional experience in technology product development, project/programme and partnership management.
- Demonstrated experience in project management related to unmanned aerial technologies.
- Experience with government relations (Civil Aviation Authorities, Telecommunication Authorities, Ministries of Health, Transport, and Education, among others).
- Demonstrated experience in the commercial drone/aviation industry and with UAS regulations and frameworks.
- Experience working in the private sector or managing corporate partnerships.
- Experience engaging with stakeholders from different backgrounds and coordinating multi-stakeholder activities.
- Experience working in a decentralised team.
- Demonstrated ability to translate complex issues for a non-technical audience.
- Experience implementing and scaling new projects or technologies in UNICEF programme countries is an asset.
- Experience and/or familiarity with humanitarian contexts is considered an asset.

Expected technical knowledge and skills:
- Familiarity with open-source principles and digital public goods.
- Demonstrated outstanding analytical and quantitative skills and the ability to conduct independent research.
- Effective presenter, including the ability to adapt the message and visual aids for multiple audiences to deliver concise, impactful presentations.
- Knowledge of business processes such as supply chain management and operations is an asset.
- Proven capacity to work with and lead collaborative teams across different locations and with different technical skills.
- Proven ability to manage relationships with partners, including government ministries, youth coalitions, universities, intellectual leaders, UN organizations, NGOs and the private sector.
- Aptitude to handle competing messages and priorities with multiple audiences.

Language:
- Fluency in English is required, coupled with solid writing and communication skills.

6. <u>CORE VALUES</u>

- Care, Respect, Integrity, Trust, Accountability and Sustainability (CRITAS).

7. COMPETENCIES

(1) Builds and maintains partnerships (2) Demonstrates self-awareness and ethical awareness (3) Drive to achieve results for impact (4) Innovates and embraces change (5) Manages ambiguity and complexity (6) Thinks and acts strategically (7) Works collaboratively with others.

8. ENDORSEMENT OF TERMS OF REFERENCE:

Function	Name	Signature	Date
Prepared by	Gerrit Maritz Deputy Representative Programme		11.1.2023
Reviewed by	Ronelle Sasser Human Resource Specialist		11 Jan 23
Approved by	Rudolf Schwenk Representative		12 January 2023