

Recruiting: GIS Data Lake Engineer

About Meridia

Accurate farm and traceability data are critical for businesses to comply with ever-stricter compliance regulations and deliver upon sustainability commitments. At the same time, most smallholders continue to struggle to earn a living income, fueling the deforestation and biodiversity crisis. Reliable field data is needed to drive the transformation toward confronting these challenges.

That's where Meridia comes in. Since 2015, Meridia offers field data solutions for smallholder supply chains to accelerate the achievement of full traceability in supply chains, enabling living income, and supporting regenerative agriculture, currently in Ghana, Ivory Coast and Indonesia.

See <https://www.meridia.land> for more information on our work.

The Role

As a Data Lake Engineer, you will develop a geospatial data lake for our Verify product, which will be used to stress-test and quality-check large volumes of smallholder farmer geodata from cocoa and coffee-growing countries.

You will be based in The Netherlands and will work closely with teams in The Netherlands, Lithuania, Ivory Coast, Ghana, Indonesia, the UK, and the USA. You will report to the Head of Product in The Netherlands.

Responsibilities

The GIS Data Lake Engineer has the following areas of work and responsibilities:

- Design and implement a scalable and efficient GIS data lake architecture that meets the needs of our organization's geospatial data management and analysis requirements.
- Collaborate with cross-functional teams, including GIS analysts, data scientists, and software engineers, to understand their data needs and requirements for the GIS data lake.
- Develop and implement data ingestion processes to collect and ingest geospatial data from various sources, such as satellite imagery, GPS data, and GIS databases, into the GIS data lake.
- Implement data storage and management processes, including data partitioning, indexing, and backup strategies, to ensure efficient data retrieval and management in the GIS data lake.

- Design and implement data processing and analysis workflows using GIS tools and technologies to enable spatial analysis, data visualization, and data mining capabilities on the GIS data lake.
- Monitor and optimize the performance and security of the GIS data lake, including implementing data governance and security best practices to protect the integrity and confidentiality of geospatial data.
- Stay updated with the latest trends and advancements in GIS technologies and data management practices to ensure the GIS data lake is built and maintained using state-of-the-art technologies and best practices.

Learning and Development

The ideal candidate should be eager and willing to learn and grow in the role. You will be engaged in on-the-job training and development to learn about agricultural supply chains, smallholder farming, supply chain due diligence, deforestation and human rights. You will be mentored by our Head of Product in The Netherlands as well as by senior colleagues in The Netherlands.

The ideal candidate has/is

- 2/3 years of experience in a similar role.
- Bachelor's or Master's degree in Computer Science, Geographic Information Systems, or a related field.
- Strong experience in designing and implementing GIS data lakes or similar large-scale data management systems.
- Proficiency in GIS tools and technologies, such as Esri ArcGIS, QGIS, PostGIS, or similar geospatial databases and libraries.
- Strong programming skills in languages such as Python, Java, or Scala, and experience with big data processing frameworks such as Apache Spark or Hadoop.
- Familiarity with cloud-based GIS data lake platforms such as Amazon S3, Google Cloud Storage, or Microsoft Azure Blob Storage, and experience with data lake architectures such as AWS Lake Formation or Azure Data Lake Storage.
- Strong problem-solving skills and ability to work independently and as part of a team in a fast-paced and dynamic environment.
- Excellent communication and collaboration skills, with the ability to effectively communicate complex technical concepts to non-technical stakeholders.

The benefits package includes

- Market rate salary commensurate with your skills and competencies
- Four-day work week
- Being part of a fast-growing impact venture with an informal, professional work culture
- A computer or laptop for work
- Engaging with team members, clients and users in various other countries
- A one-year contract, with the expectation to extend the contract hereafter.

Apply!

Applications will be processed on a rolling basis. Please apply by submitting your details: <https://podio.com/webforms/12899533/879652>.

The ideal starting date is July 2023.

If you have any questions, feel free to reach out to jobs@meridia.land for more information about this position.