

Data Science Manager Job Opening

The Mission. COSA's mission is to accelerate sustainability by advancing smart performance metrics and innovative technologies, enabling users to take better decisions that make a tangible difference for people and planet. Our clients are corporations, including some Fortune 500 brands and retailers, and also public sector institutions. Our tools and services help our clients understand vital issues in their supply chains or sustainability projects (e.g., child labor and deforestation), especially in the poorest countries where our work is focused. Using better metrics, they can understand where efforts to improve conditions (such as food security or climate adaptation) are having the desired impact. Due to the large reach of our clients' supply chains and scale of investments, the knowledge generated by COSA for its clients has outsized impacts on sustainability and poverty.

Current Need. Transforming data into knowledge is a core function of COSA. This includes targeting and collecting **the right data** in developing countries, **analyzing risks and opportunities**, and generating **interactive reports and dashboards**. This work requires statistical rigor and understanding. We are looking for a key staff person in the area of data science and statistical analysis to help improve COSA's overall impact in delivering credible data analysis with exciting and innovative tools.

General objectives of this role. The **Data Science Manager** will be responsible for statistical analysis across diverse types of projects and international clients. This work includes the design of data experiments, data preparation, statistical modeling, and assistance building innovative dashboards and visualizations to facilitate learning.

The position provides a unique opportunity to join a small dynamic team and organization with high-growth and impact potential.

Required Skills

1. Experienced in developing **sampling design** for research projects, and **optimizing data sampling** and applying statistical power calculations to estimate representative sampling protocols
2. **Building regression and classification models** including specific skill with explanatory models to understand, test, and refine links between multiple data points
3. **Data Storytelling:** skill in thoughtfully writing, arranging, and visualizing data analysis to point to actionable or important insights, for diverse intended audiences which can range from global executives to small cooperatives in rural regions of the developing world
4. **Demonstrated, strong expertise working in databases, query writing, and statistical and econometric analysis using** tools like SQL, R, Python, STATA.
5. **Data validation, testing and sensitivity analysis**
6. **Systems thinker** to develop standard conventions around question and indicator IDs (so that queries are replicable)

7. **Data Preparation:** transforming data from one format to another using repeatable, documentable method. **Data wrangling** between different systems.
8. **Experimental Design:** formulating survey questioning/cascading, data collection formats, factors, variables, and A/B testing within a comprehensive data study.
9. **Experience with clustering or index-segmentation** to label unlabeled data or characteristics.
10. Experience in analyzing risks

Preferred Skills

11. No less than 5 years of experience working with data at a professional level and leading some of the above efforts. If you only have a few years of experience, you must have extraordinary skills and professional recommendations to be considered.
12. Understanding of agriculture and skills in economics. Degrees in agricultural economics, statistics, data science, or related fields
13. Excellent English skills are mandatory (writing and speaking). There is a preference for having multi-lingual skills, especially in Spanish or French.
14. Experience with Business Intelligence tools such as Tableau, PowerBI, Apache Superset or comparable tools.
15. Experience with predictive modeling.
16. Experience with AI or machine learning.

About this position: This is a part-time or a full-time position. The position is remote but does require an excellent work discipline to be on-time and available during agreed hours. Individual ideally is based in a time zone in the Americas or Europe/Africa, in order to facilitate collaboration with a team based in these regions.

We are a non-profit, mission-led organization that focuses on pragmatic data-based insights to drive better decision making to achieve sustainability. We are an equal opportunity employer and are interested in highly skilled women, minorities, and residents of developing countries. Our culture is to collaborate and where staff all know how to roll up their sleeves and do their work diligently while enjoying a close camaraderie.

Salary: Commensurate with experience.

Interested applicants

Please complete these 2 steps: [Apply here](#), and send resume/CV to: Careers@thecosa.org.

Only applicants of interest will be contacted.

Thank you.