

Senior Data Scientist

FHI 360 is seeking qualified and highly motivated candidates for the position of **Senior Data Scientist** to support multiple projects across the Asia Pacific region focused on the detection, treatment and prevention of tuberculosis (TB) as well as climate change mitigation, adaptation and resilience. This role will focus on innovative new approaches for TB case detection using deep learning-based image recognition to interpret chest x-rays as well as for understanding and mitigating and/or addressing the impacts of climate change.

This position will report to the Deputy Regional Director/Technical Director for the Asia Pacific region. International and local candidates are encouraged to apply.

Position Description:

The **Senior Data Scientist** will provide the overall technical direction and leadership for activities in the realm of artificial intelligence (AI) machine learning (ML) or deep learning (DL) with a specific focus on chest X-ray interpretation for TB and relevant applications in climate science. They will provide support to technical staff working on the TB project and the regional Environment and Climate Change (ECC) Initiative in the statistical analysis of project/secondary data, the interpretation of these analyses to inform national policy, and the application of related research questions as appropriate.

The **Senior Data Scientist** will also support the design, analysis, interpretation and documentation of statistical results for project/program/strategy implementation, including analyses using AI (ML or DL).

Key Responsibilities:

Additional responsibilities including, but not limited to:

- Develop statistical standard operating procedures and provide training to statisticians and non-statisticians on data analysis plans, with a specific emphasis on AI (ML or DL) data.
- Develop statistical procedures to ensure consistency and use of the most appropriate statistical techniques;
- Lead and ensure the quality of design, analysis, interpretation, and documentation of statistical analyses for project(s) data, with a special focus on AI (ML or DL) analyses.
- Provide technical expertise to use AI deep learning networks for chest X-ray interpretation with the goal to improve TB detection and for AI applications to climate science.
- Secure and analyze large datasets that can predict climate change to, for instance, inform disaster response; monitor biodiversity.
- Act as key liaison with strategic partners including Ministries of Health (MOH), National Tuberculosis Programs, Ministries of Environment and others to provide technical support as needed.
- Lead capacity-building of project teams and other partners on technical expertise in research, implementation science, data analysis, and data science/artificial intelligence.
- Lead processes to review and analyze global and local evidence to inform the establishment of country priorities for program and policy action.
- Identify lessons learned from programs and collaborate with senior management to assure the responsible technical components are of high quality and improve processes and practices.
- Represent the project in meetings with the donor and partners (multi-lateral organizations, donor organizations, governmental organizations, other international non-governmental organizations, etc.) as well as in external conferences and consultations.

* This job posting summarizes the main duties of the job. It neither prescribes nor restricts the exact tasks that may be assigned to carry out these duties. This document should not be construed in any way to represent a contract of employment.

Management reserves the right to review and revise this document at any time.

Qualifications and Experience Requirements:

- Minimum **10 - 15 years** of experience with a Master's degree in Statistics, Biostatistics or related discipline; **5-10 years** of experience with a PhD *preferred*.
- Advanced proficiencies with statistical methods such as: linear and nonlinear regression modeling, multivariate analysis, Cohen's Kappa analysis, and receiver operating characteristic curve (ROC) analysis.
- Advanced programming skills using one or more statistical packages or languages (e.g., SAS, STATA, R, or JMP).
- Proficient in developing AI ML/DL solutions in R or Python, with experience in both a hands-on and strategic capacity.
- Proficient in exploratory AI ML/DL data analysis and hypothesis testing to identify interesting trends and relationships; implement algorithms to support analysis using advanced statistical and mathematical methods from statistics, ML/DL, data mining, and operations research.
- Previous experience supporting clinical trials and translational science research including trial planning, sample size and power calculation for trial designs, and adaptive trial designs.
- Management experience with outstanding interpersonal and communication skills and the ability to multi-task in fast-paced environments.
- **Desired:** Interest in learning about TB, if expertise is not already acquired; Knowledge of/experience with AI/DL software for TB CXR interpretation (e.g., qXR (Qure.ai), CAD4TB (Delft Imaging), Lunit Insight (Lunit), etc.
- Excellent oral and written communication skills in English *required*.

To apply to this position, please submit your Cover Letter and Resume by clicking [here](#).

FHI 360 is an [equal opportunity and affirmative action employer](#) whereby we do not engage in practices that discriminate against any person employed or seeking employment based on race, color, religion, sex, sexual orientation, gender identity, national or ethnic origin, age, marital status, physical or mental disability, protected Veteran status, or any other characteristic protected under applicable law.

FHI 360 will consider for employment all qualified applicants, including those with criminal histories, in a manner consistent with the requirements of applicable state and local laws.

FHI 360 fosters the strength and health of its workforce through a [competitive benefits package](#), professional development and policies and programs that support a healthy work/life balance.

Join our global workforce to make a positive difference for others — and yourself.

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