

# Job Description:

## Senior Health Data Scientist



### General role information

<b>Job Title:</b>	Senior Health Data Scientist
<b>Reporting to:</b>	Director of Evidence and Impact
<b>Salary Band:</b>	16
<b>Notice period:</b>	3
<b>Career Band:</b>	6
<b>Budget Responsibility?</b>	No
<b>Direct Reports?</b>	No
<b>Client facing role?</b>	Yes

### About MSI Reproductive Choices

At MSI Reproductive Choices we are unapologetically pro-choice. We believe that every woman has the right to make choices about her own body and her own future. As one of the world's leading providers of contraception and safe abortion care, we give women the means to do so. Our team members, working across 37 countries, provide high quality, safe services to women, when and where they need them. Because when a woman can determine her own future, she can contribute to creating a better, more sustainable future for everyone.

MSI Reproductive Choices is committed to safeguarding: promoting the welfare and safety of everyone involved in the delivery or receipt of sexual and reproductive health services, especially children, young people and vulnerable adults. We are committed to ensuring diversity, and equality for all within our organisation and encourage applicants from diverse backgrounds to apply. We expect all staff and post holders to share our values and commitments.

### The department/team

High quality data & evidence is essential for MSI Reproductive Choices to achieve ambitious 2030 strategy goals. The purpose of this team is to ensure the organisation has the right data collected, turned into insights that can be put into action. A pragmatic focus on 'knowing what works ensures that insight gathering, and programme evaluations make a difference to how services are implemented for clients across the world.

To achieve this, the Evidence & Insight team works with all departments to ensure they are asking the right questions and answering them effectively. It delivers rapid data analytics to support programmes in their implementation. The team ensures projects are well designed, carefully monitored and evaluated, and operational learnings gathered and disseminated to further adaptive learning.

We are also responsible for undertaking strategic research to answer the big-picture questions of global relevance, whose results are applicable across and beyond the partnership and Impact

All MSI Reproductive Choices UK job descriptions are subject to a language neutrality test prior to approval and were always looking for new ways to make our recruitment process as fair and unbiased as we can. If you'd like to provide

feedback on MSI Reproductive Choices recruitment process, please do so via email to

[recruitmentinbox@msichoice.org](mailto:recruitmentinbox@msichoice.org)

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modelling to demonstrate the value add of MSI programming to current and potential donors and investors.

### The role

This is an exciting opportunity for a seasoned professional – passionate about driving development to be more effective, equitable, and efficient through evidence and identifying best practice – to join MSI Reproductive Choices.

As a Senior Health Data Scientist at MSI Reproductive Choices, you will help transform our clients' data into tangible value by analysing information, communicating outcomes and collaborating on data tool product development. Whether it's investigating client trends in outreach or linking climate challenges to service delivery to show the health impact benefit, you will work to solve real problems for MSI transforming the lives of millions of women.

The most important characteristic is that you love data analysis and have the curiosity and drive to answer both simple and complex questions and feel your job is done when your outputs are being used for positive change and improving MSI Reproductive Choices results. You will also have a passion for playing a key role in envisioning our data science research and strategy.

### Key Responsibilities

#### Provide technical expertise to ensure quality insight generation, agile data use and adaptive programming (40%)

- **Undertake high quality analysis and generate actionable insights for operations:** This requires developing a deep and wide skillset in using all of MSI's data analytics tools and processes and creating value from our raw data, analysing a wide range of structured and unstructured data from both internal and external sources. You will also identify potential bias within predictive models, working collaboratively with the team to overcome this and ensure the model fits correctly.
- **Develop analytical dashboards:** Create new – and extend existing – dashboards and reports that synthesize data from multiple sources and information systems. Work with stakeholders to understand their business needs and create reports and visualizations based on business needs. Develop guidance what operational questions do the insights answer and how we can ensure their effective programmatic implementation.
- **Geo-spatial mapping:** You will lead on developing geo-spatial maps of our country programmes, populated with key demographic and service delivery data. This essential work will support programmes to better plan their operations and deliver services in more cost-effective manner.

#### Lead on developing new models for economic value-add, value and impact of providing services in climate challenged locations or in humanitarian – resource challenged settings (20%)

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- Design new models to show the impact of MSI service delivery that solve problems of large dimensionality in an efficient and statistically effective manner
- Produce value for money and Impact reports and refine models and reporting to ensure models stay relevant and useful
- Use statistical and data mining techniques (e.g. hypothesis testing) on large, unstructured data sets to identify trends, figures and other relevant information
- Lead conversations with colleagues and other stakeholders to effectively integrate and communicate analysis findings

### Contribute to technical development of proposals and reporting: (10%)

- Support the London-based Programme Design and Development and External Relations teams to develop evidence based proposals; developing cases studies and data to support winning bids, especially for value for money and other complex new models

### Contribute to the effective dissemination of MSI's impact (20%)

- Produce digestible and impactful evidence products, including digital content (knowledge hubs, newsletters, SharePoint), printed content (evidence briefs, reports) and oral content (presentations at technical meetings, symposia, conferences).
- Be an ambassador for MSI: Present the results of your and others' work to donors, government officials, and other key stakeholders to demonstrate the impact of MSI's work, advocate for evidence-based policy changes, and highlight the critical role of evidence in driving effective SRH programming.

### Participate in other cross functional "virtual" teams and support project work as necessary (10%)

- Proactively contribute to MSI project teams as required

### Measures of success:

1. Data and models solve key challenges/answer questions to improve performance
2. Successful proposals and high technical "data & evidence" scores using MSI evidence and learning
3. Producing and presenting high quality insight. Delivering insightful presentations to senior audiences.

Please note that you may also be required to carry out reasonable additional ad-hoc duties, at the request of your line manager.

Please read this document in conjunction with the Person Specification for the role.

## Signature

By signing below, you indicate that you have read and agree to this job description.

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<b>Full name:</b>	
<b>Signature:</b>	
<b>Date:</b>	