

## **Background:**

Data Scientist is someone who makes value out of data. Data Scientist you must be able to translate complex compilations of data into information and develop intelligence products that help our customers to achieve their ambitions. S/he should provide oversight and insight into, and create added value from, structured and unstructured internal and external data (including big data). S/he will perform following functions:

## **Qualification Skill and experience:**

### **Required**

- PhD or similar qualification in a quantitative data science discipline
- Degree with a quantitative focus (economics, computer science, physics, mathematics, engineering, statistics or related).
- Strong understanding of statistical methods, data analysis, Interpretation & optimization.
- 2+ years of work experience in health care/government sectors
- Experience as an analyst or in an analytical role. PhD work can be substituted for experience. Experience in public health is a plus but not necessary
- Experience in dealing with large scale data (NFHS, DLHS, AHS and DHS etc.
- Experience in one or more Statistical software (STATA, SPSS, SAS, R, etc.)
- Experience working with advanced statistical analysis (regression, Bayesian, predictive analytics, hypothesis testing
- Experience designing data models and using natural language processing algorithms (sentiment analysis, topic segmentation, automatic summarization, etc.).
- Ability to communicate results to both technical and non-technical audiences effectively
- Excellent interpersonal and communication skills - able to adjust approach to effectively interact at all organizational and technical levels
- Good knowledge of basic statistical methods and should possess data analysis skills.
- Able to work and communicate results and concepts to multidisciplinary project teams.

## **Role and responsibilities**

Typical day-to-day activities and in-demand skill sets for Data Scientists include, but are not limited to

- Apply advanced statistical methods and work with a variety of datasets related to the management and execution of international development programs.
- Provide inputs to future programs and strategies in Global Health and other international development sectors.
- Provide analytical decision-making support on key projects. Proactively research new ways of modelling data to unlock actionable insights or improve processes.
- Use predictive analytics and/or machine learning to facilitate forecasting for a complex, global operation.
- Proactive problem solving, analytical skills, time management, and decision making
- Excellent interpersonal and communication skills - able to adjust approach to effectively interact at all organizational and technical levels
- Develop Data Processing Pipelines to implement data workflow process as required.
- Extraction and analysis of large healthcare data using appropriate technologies.
- Opportunity analysis to identify patterns in the data
- Support project teams using state of the art computational analysis approaches applied to a variety of data sets and their combinations.
- Develop customized algorithms to solve analytical problems with incomplete data sets.

- Design and/or supervise implementation of data management solutions in collaboration with healthcare experts.

Desirable

Experience of handling healthcare data would be a plus.

Working knowledge of mathematical models & techniques and how to apply them on datasets.

**Pay Scale** 75,000 – 85,000 p.m.

**Start date:** Applications will be processed as they arrive and appointment will be made as soon as a suitable candidate is found.

**End date:** 31<sup>st</sup> March 2020 (**the post is extendible till 30th Nov. 2020**)

**How-to-apply:** Please send a CV detailing your education and professional experience to [psingh@iiitd.ac.in](mailto:psingh@iiitd.ac.in) with subject “Application for Data Scientist”