Biostatistician

PrecizionIQ Data Pvt. Ltd. | Job Description

ROLE Biostatistician / Senior Biostatistician	**WORK ARRANGEMENT** Full-time; Delhi-NCR/ hybrid / remote]
REPORTS TO [CTO / R&D lead]	**EXPERIENCE** 5+ Years

About the role

Precision IQ is developing a metabolomics-based prenatal test to detect chromosomal aneuploidies. This role is centered on deep statistical analysis: understanding complex data, testing assumptions, quantifying uncertainty, and determining what the evidence supports. You will work closely with product and engineering colleagues to turn analytical findings into clear requirements, evaluate proposed changes, and improve how the products perform.

What you will do

- Lead rigorous statistical investigations of complex datasets to answer product and scientific questions, identify meaningful patterns, quantify uncertainty, and explain limitations.
- Design and review studies, sampling plans, experiments, and validation strategies that produce interpretable and decision-ready evidence.
- Develop and assess statistical, AI, and machine learning methods where appropriate; compare alternatives for accuracy, robustness, interpretability, and suitability for the intended use.
- Translate statistical findings into practical product recommendations, model specifications, evaluation criteria, and testable requirements that engineering teams can implement.
- Work closely with product managers and software engineers throughout development: clarify questions, define analytical requirements and success measures, review implementation, and assess results.
- Assess data quality, missingness, bias, confounding, variation, and uncertainty; identify limitations and recommend ways to improve data collection or analysis.
- Establish clear model evaluation practices, including suitable validation, sensitivity analyses, subgroup checks, and transparent reporting of uncertainty.
- Help convert statistical methods into implementable software requirements; collaborate on reproducibility, monitoring, and ongoing evaluation as products evolve.
- Explain findings and trade-offs to technical and non-technical audiences, and document methods so that work can be reviewed and maintained.

What you bring

- A Master’s or PhD in biostatistics, statistics, epidemiology, data science, or a related quantitative discipline, or equivalent applied experience.
- Strong understanding of study design, statistical inference, regression and multivariable methods, model evaluation, and uncertainty quantification.
- Experience working with complex biological, health, or other real-world datasets, including practical challenges such as limited sample sizes, noisy measurements, and incomplete data.
- Applied experience with AI and machine learning approaches, such as supervised or unsupervised learning, and a sound understanding of when they are appropriate. Ability to evaluate performance, robustness, and interpretability in context.
- Ability to choose validation approaches that reflect how a model or analytical feature will be used and to recognize overfitting, leakage, and misleading performance estimates.
- Proficiency in R or Python and comfort producing reproducible analysis; experience collaborating with software or data engineering teams.
- Clear communication, sound scientific judgment, and a willingness to question assumptions and state what the evidence does and does not support.

Helpful additional experience

- Metabolomics, lipidomics, mass spectrometry, or other omics data analysis.
- Clinical diagnostics, biomarker research, laboratory workflows, or regulated product development.
- Machine learning deployment, model monitoring, or statistical quality control in a software product.
- Experience planning prospective validation studies or working across multidisciplinary product teams.

What success looks like

You will produce deep, decision-relevant statistical analysis and build a strong working partnership with product and engineering. In the first 6–12 months, success may include clearer analytical requirements, more reliable evaluation of product changes, repeatable statistical workflows, and a prioritized set of evidence-based product improvements for IQONE and Plainsight.

How to apply

Please send your CV and a short note describing a complex statistical or modelling challenge you addressed, how you evaluated the reliability of your conclusions, and how you worked with others to apply the findings, to [amit.kumar@precizioniq.com].

Last date of application – 31st March 2027