Data Scientist (Bioinformatics)

Lead computational research in genomics, transcriptomics and multi-omics: build NGS pipelines, discover biomarkers and build predictive models that combine molecular, clinical and imaging data. Joining timeline: immediate or within 30 days.

Key details

Advertisement No.
IITI-DRISHTI-CPS/Sec-8/2026/32

Location
IIT Indore

Positions
1

Duration
One year, subject to change as per project requirements

Last date to apply
2 December 2026

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About the Foundation

IITI DRISHTI CPS Foundation is a Technology Translation Research Park hosted at IIT Indore and supported by the Department of Science & Technology, Government of India. It works on Digital Healthcare, Cyber-Physical Systems, system simulation and modelling, and commercialisation of deep-tech innovations. Its flagship platform is CharakDT, a Digital Health and Clinical Decision Support ecosystem. drishticps.org

Roles and responsibilities

Pipelines and analysis

- Design and validate pipelines for WGS, WES, targeted sequencing and RNA-seq
- Lead variant analysis, differential expression, functional enrichment and pathway interpretation
- Optimise pipelines for HPC or cloud deployment

Biomarkers and modelling

- Identify and validate genomic, transcriptomic and multi-omics biomarkers
- Integrate molecular data with clinical, morphometric and imaging-derived features
- Apply biostatistics and machine learning for prognostic models, with QC and batch-effect correction

Research and collaboration

- Guide junior researchers and plan analyses with investigators
- Work with clinicians, molecular biologists and developers
- Contribute to manuscripts, grant proposals and reports

Key skills and competencies

Genomics, transcriptomics, human genetics and NGS

Python and R, Linux and Bash, reproducible workflows

Tools such as GATK, bcftools, VEP, STAR, DESeq2, edgeR, GSEA

Biostatistics, multiple-testing correction and machine learning

Ability to frame research questions independently

Qualifications and experience

Essential

- Ph.D. in Bioinformatics, Computational Biology, Genomics, Genetics, Biotechnology, Biomedical Informatics or a related field, OR M.Sc./M.Tech. in a related discipline
- 1 to 3 years of relevant research or professional experience; strong dissertation, internship or project experience may be considered

Preferred

- Multi-omics integration, systems biology or clinical genomics
- Neurological disorders, neurogenomics or traumatic brain injury research
- Nextflow, Snakemake, Docker, Git, HPC and cloud platforms
- Single-cell RNA-seq, spatial transcriptomics, peer-reviewed publications

Compensation and selection

Compensation: as per industry standards.

Only shortlisted candidates will be called for a written test, interaction or interview. Meeting the eligibility criteria does not guarantee shortlisting. The company may cancel or not fill the post without giving a reason. The position is contractual, full-time and subject to periodic performance reviews.