

Post-Doc @ IBSE, IIT Madras

The Initiative for Biological Systems Engineering (IBSE) at IIT Madras is seeking to hire a Post-doctoral fellow to join the GenomeIndia Project. GenomeIndia project is a multi-institutional project started in India funded by the Department of Biotechnology, Government of India. The project aims at performing whole-genome sequencing (WGS) of at least 10,000 individuals representing the Indian population in order to create a detailed catalog of genetic variations. We are a data science partner in this project. Our objective is to apply Machine Learning and AI for genome analysis, annotation, and reference genome development.

Eligibility

- Candidates must have completed their Ph.D. in Bioinformatics/related fields
- Candidates must have demonstrated academic excellence
- At least two years of experience working with whole-genome sequencing data analysis
- Strong Expertise in biostatistics and machine learning
- Knowledge in graph algorithms, QTL/GWAS
- Strong communication, data presentation, and visualization skills
- Ability to work both independently and collaboratively

Shortlisting criteria

- Academic pedigree, performance
- Ph.D. research area and list of publications, if any
- Proficiency in programming (high-level languages, preferably Python/R)
- Experience in whole-genome sequencing data analysis and statistics
- Contribution to open-source projects will be a plus

Benefits

- Work in a highly interdisciplinary environment, with eminent faculty in Systems Biology and Data Science
- Monthly emoluments starting at ₹50,000 (consolidated)
- The position would be for 2 years after a 3-month probationary period
- Access to state-of-the-art high-performance CPU/GPU computing infrastructure
- Travel to two national conferences every year
- Partial support to travel to one international conference in two years
- Regular colloquia by international experts and workshops

Application

- Apply to ibse.projects@gmail.com with the following details:
 - Latest CV describing your academic record with publications list, list of programming languages known, level of proficiency, and certification if any (attach a single PDF or link to Dropbox/Google Drive/OneDrive)
 - A research proposal (500-750 words)
- Deadline for application: 15 November 2020
- Shortlisted candidates will be interviewed before 10 December 2020