



Advertisement No. NIBMG/ADMIN/ESTB/2023-24/380

Date: 12-02-2024

### Position available

Applications are invited for the positions of **Research Associate** (Project Linked Persons) for extramural projects **funded by ICMR** as per details given below.

**Project Name:** *Fast detection of driver mutations and genes from cancer genomics data using an integrative machine learning-based approach.*

**Principal Investigator:** Dr. Nidhan Biswas

**Project description:** Cancer is a major cause of death worldwide. Key alterations (known as driver events) within normal cells provide selective advantage and help tumour to grow. It is also well known that the profiles of driver alterations vary across intra- and inter-tumour as well as between cancer types. Identifying such driver alterations is crucial to understand the background biological mechanism at molecular level as well as determine the success of disease diagnosis and precision treatment in a clinical setting. This project aims to identify driver alterations that provide uncontrolled growth advantages resulting in normal cells becoming malignant tumours by applying ensemble machine learning (ML) algorithms both from patient cohort and single patient level.

**Position:** Research Associate - 01 Post

We are looking for motivated and bright individuals interested to explore career opportunities in this project at NIBMG for the position mentioned below:

#	Name of Position	Essential Qualification	Desirable Qualifications	Nature of Duty	Fellowship
1	Research Associate	<p><b>(i)</b> PhD in Computer Science or bioinformatics or Genomics with at least one research paper in Science Citation Indexed (SCI) journal.</p> <p><b>OR</b></p> <p>M. Tech in Computer Science with at least one research paper in Science Citation Indexed (SCI) journal with minimum three years of research experience.</p> <p><b>(ii)</b> Good knowledge about machine learning.</p> <p><b>(iii)</b> <b>AGE LIMIT=</b> maximum 40 years at the time of interview (relaxable upto 2 years in case of women candidate)</p>	<p><b>(i)</b> Deep experience in analysis of genomics data and building data analytics pipelines for somatic mutation detection and building pipeline for driver gene detection.</p> <p><b>(ii)</b> Strong expertise in C/C++ or Python or R</p> <p><b>(iii)</b> Good knowledge of existing cancer driver gene detection algorithms.</p> <p><b>(iv)</b> Good knowledge in Linux</p>	<p><b>(i)</b> Curate and filter somatic mutations</p> <p><b>(ii)</b> Building pipeline for driver gene detection with existing tools</p> <p><b>(iii)</b> Building machine learning models to identify cancer driver alterations and genes.</p> <p><b>(iv)</b> NGS data analysis</p> <p><b>(v)</b> Report writing</p>	Rs. 49000- + HRA@9% pm.

- a. This position is contractual. The appointment will be initially given for One Year, which is extendable depending upon performance, requirement of the project and availability of funds.
- b. Interested candidates need to send email with a copy of the CV and relevant documents to [nkb1@nibmg.ac.in](mailto:nkb1@nibmg.ac.in).
- c. The last date of application is **26/02/2024** (upto 12 midnight). Please visit **www.nibmg.ac.in** for further information.
- d. Only the shortlisted candidates will be called for online interview. The date of the Interview will be intimated later.
- e. All Educational, Professional and Technical qualifications should be from a recognized Board/University. Fulfillment of essential qualifications and experience does not automatically entitle a candidate to be shortlisted or called for Interview.
- f. Canvassing in any form or bringing influence will lead to disqualification the candidate.

**Manager-Administration**