NATIONAL INSTITUTE OF BIOMEDICAL GENOMICS (An Autonomous Institution of the Government of India)



P.O.: N.S.S., Kalyani 741251, West Bengal, INDIA www.nibmg.ac.in

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Position available.

Project name and Funding body: 'Sex-difference in the genetic architecture of human complex diseases' – **DST**

Principal Investigator's name: Dr Anasuya Chakrabarty

Project description:

Sex-difference is widespread in the onset, prevalence, or expression of human complex disorders. Human height differs between the sexes as does BMI, waist-to-hip ratio etc. Incidences of cardiovascular and autism spectrum disorder are more common among men, while disorders like schizophrenia etc., have an earlier onset in males compared to females. But males and females share almost their entire genomes despite their difference. Such differences can arise either due to the underlying genetic architecture or due to difference in environmental factors. In this project, we are interested in the difference between the sexes that can be attributed to genetics. Particularly, the following questions would be addressed -What is the extent of the difference in genetic architecture between the sexes? What contributes to this difference despite the shared genomes? Is this difference between the sexes trait-specific? And most importantly, how did sexual dimorphism evolve? These questions will be addressed using publicly available summary data and the UK Biobank. We are using i) multivariate quantitative genetic methods, ii) statistical and computational tools to analyse our data. We are looking for a project associate (biologist/non-biologist) who has a quantitative bend of mind, interested in statistics and programming, or has outstanding knowledge of genetics. If you want to unravel the secrets of sexual dimorphism in the genetic architecture of humans and are open to learn quantitative methods and tools, then we encourage you to apply. The position is for 1 year, which may be extended depending upon performance. For any queries, please email ac4@nibmg.ac.in

Name of the	No. of	Remuneration	Essential	Desirable	Nature of duty
position	positi	[INR] per	qualifications	qualifications	
	on	month			
Project	1	(i) 31,000/-	i) Masters in	i) Basic	Data wrangling of
Associate- I		+ 24% HRA	any branch of	knowledge in	summary data as
		to scholars	Biology/	genetics and	well as genotyped
		who are	Statistics/	genome wide	data from UK
		selected	Bioinformatic	association	Biobank.
		through (a)	s/	studies (GWAS)	Statistical
		National	Biotechnology		analysis of
		Eligibility	/ Computer	iii) Hands on	individual level
		Tests – CSIR-	Science	experience in	genotype data as
		UGC NET		GWAS, DNA	well as GWAS
		including	ii) Basic	sequence data	summary
		lectureship	knowledge in	analysis and	statistics. Data
		(Assistant	R	familiarisation	interpretation
		Professorship	programming	with necessary	and writing up
) or GATE or	/ Linux	bioinformatic	results. Assisting
		(b) A		tools like PLINK	PI in
		selection	iii) Age limit	etc.	bioinformatic and
		process	35 years as on		statistical
		through	last date of	iii) Good	analysis.
		National level	application	communication	
		examinations		skills and	
		conducted by		competency in	
		Central		English	
		Government			
		Departments			
		and their			
		Agencies and			
		Institutions.			
		(ii) 25,000/-			
		+ 24% HRA			
		for others			
		who do not			
		fall under (i)			
		above.			

Following documents are required at the time of interview:

- 1. Curriculum Vitae along with reprints of publications, if any
- 2. One Passport- size coloured Photograph
- 3. Original along with one set of Self-Attested Copies of Certificates of Educational Qualifications
- 4. Original along with Self-Attested Copies of Experience Certificates
- 5. Original and Self-Attested Copies of Govt. issued Photo ID proof

This position is contractual, and appointments will be initially given for **ONE YEAR**, which is extendable depending upon performance and requirements of the project. Please send a detailed CV with other relevant documents to **ac4@nibmg.ac.in** (no other form of application will be accepted). The last date of application is **1**st **March 2024**, **5PM**.

Please visit our website **www.nibmg.ac.in** for further information. <u>Only the shortlisted</u> <u>candidates will be called for Interview/Test</u>. <u>No TA/DA will be provided</u> for attending the Interview/Test.

The decision of NIBMG in all matters relating to eligibility, acceptance or rejection of application, mode of selection, and conduct of interviews will be final and binding on the candidates.

Manager-Administration