(A Grant-in-aid Institution of the Dept. of Atomic Energy, Government of India)

No. ACTREC/ADVT-92/2022   07.12.2022

INTERVIEW FOR SCIENTIFIC OFFICER (1 Post)
(ON PROJECT)

"Basic and Translation Research in cancer (Artificial Intelligence)".

Qualification & Experience	**Essential**	Masters or PhD in Computer Science/IT/Electrical/Electronic Engineering /Mathematics/Statistics/ and other relevant branches. Candidates should have hands-on DL programming experience in Python, Keras, Pytorch, tensorflow and/or other DL frameworks. Exceptional candidates having completed a 4years bachelor's programme with at least 1 year DL experience may also apply.
	Preferred	Prior relevant experience of handling pathology WSI, Radiology Images and experience in processing these images using DL.
	Desirable	Experience in production grade deployment of algorithms, including but not restricted to Docker, Kubernetes, PHP, Java, etc & ability to interact with databases built in SQL, DB2, MySQL, MS SQL etc.
Job Description		There has initiated multiple collaborative projects involving deep learning (DL) applications in healthcare, with emphasis on oncology. Some of the poster projects include the imaging Biobank for cancer (DBT funded) and predicting response to therapy (DBT-CRUK seed grant recipient). Further, TMC is in the process of setting up a HPC with CPU (~130 TFLOPS) and GPU (~PFLOPS) nodes for supporting these projects.
		The work rests on a strong collaboration between TMC and IITB with the aim of creating clinically relevant tools/algorithms for radiology and pathology image analysis, for prediction and prognostication and deploying them for clinical testing and eventual clinical use.
		The candidate will be expected to have below mentioned qualification/experience and interest in translational work aimed at converting advances in DL into clinically viable products. The candidate will be involved in multiple rounds of training, testing and validation of DL algorithms on pathology and radiology images up to the stage of infrastructure and data platforms within TMC.
		The candidate will be expected to work in a team composed of DL engineers (from TMC and IITB) as well as medical and technical staff from TMC with strong preference for teamwork rather than individual expertise.

Consolidated Salary: Between Rs.40,000/-p.m to Rs. 100,000/-p.m depending on experience, level of training, expertise, task completion & interview assessment with annual increments.

Duration: Six months (Renewable based on performance assessment and mutual agreement)

Commitment Expected : Minimum 1 year

Candidates need to send application by email with scanned copies of CV and the relevant certificates (experience and qualification) to **srane@actrec.gov.in** & **tbameta@actrec.gov.in** by **31st December 2022** by **5pm**.

Shortlisted candidates will be given an exemplar task to complete. Candidates successfully completing the task will be called for interview (in-person/virtual). The date & time will be informed later.

Candidates need to provide recent CV, original and attested copies of all certificates and testimonials, recent passport size photograph and ID proof at the time Interview.

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In-charge (Academic & Project cell)