

## **Postdoctoral Research Fellows/Computational Engineers for Machine Learning in Drug Discovery**

**Gangwal School of Medical Sciences and Technology, IIT Kanpur**

Postdoctoral Research Fellows/Computational Engineers (2) are needed focusing on machine learning for drug discovery at the Gangwal School for Medical Sciences and Technology (GSMST), IIT Kanpur.

*The overall responsibilities will be:*

Collaboration with research teams, consisting of biologists, chemists, and pharmacologists, to develop and refine machine learning algorithms and models tailored for drug discovery by applying deep learning, natural language processing (NLP), and other AI techniques to extract and work with valuable biomedical data. It will also involve cleaning, pre-processing, and analysis of large datasets of biological, chemical, and pharmacological information to identify potential targets for drug development by using appropriate statistical and computational techniques and machine learning protocols. It is expected that the candidates will stay updated with the latest advances in machine learning, algorithms, and artificial intelligence suits, useful for drug discovery and allied areas.

Qualifications for Postdoctoral Fellows will be Ph.D. with a strong background in computational sciences with prior experience in handling structural biology data, development of algorithms, and computations concerning machine learning protocols and their application to drug discovery. Similarly, Computational Engineers having a strong educational (MTech in computer science, theoretical biology) research background in computational biological sciences and hands-on experience with data mining and development of machine learning algorithms for de novo drug discovery will be essential. Prior publication records in computational drug discovery will be useful.

GSMST IIT Kanpur will provide an intellectually stimulating working environment, best-of-the-class computing facilities, and competitive salary as per IIT Kanpur rules and guidelines.

Interested candidates are required to send their CVs with a list of publications and PDF reprints to the undersigned by **February 8<sup>th</sup>, 2024**.

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