क्षेत्रीय जैवप्रौद्योगिकी केन्द्र
राष्ट्रीय महत्ता की संस्था, जैवप्रौद्योगिकी विभाग,
भारत सरकार द्वारा यूनेस्को के तत्वावधान में स्थापित
Regional Centre for Biotechnology
An institution of National Importance,
Established by the Department of Biotechnology
Government of India, under the auspices of UNESCO

United Nations
Educational, Scientific and
Cultural Organization

क्षेत्रीय जैव प्रौद्योगिकी केन्द्र
Regional Centre
for Biotechnology

26.06.2020

<u>Advertisement No. IBDC/01/2020/Recruitment/HR</u>

<u>RECRUITMENT FOR CONTRACTUAL POSITIONS UNDER THE PROJECT "INDIAN BIOLOGICAL DATA CENTRE (IBDC) PHASE I"</u>

Regional Centre for Biotechnology (RCB) is an Institution of national importance established by the Department of Biotechnology, Ministry of Science & Technology, and Govt. of India. The primary focus of RCB is to conduct innovative research and provide world class education & training in Life Sciences and Biotechnology.

RCB, with support from the Department of Biotechnology, Govt. of India, will set up the Indian Biological Data Centre (IBDC) for storage and distribution of biological data. Applications (online mode) are invited from dynamic, result-oriented and dedicated eligible candidates for the following contractual positions.

S. No.	Name of the post, monthly consolidated emoluments	Qualifications and Experience	Job Description (May include any other responsibility assigned by the Executive Director, RCB)	No. of post(s), age limit
1.	**Project Head** Monthly consolidated emoluments up to Rs. 2,24,416	PhD with minimum of twelve (12) years of experience, or MTech (in any branch of engineering or science) with minimum of fifteen (15) years of experience, in an academic setting/industry in the area of bioinformatics/computational biology/data science, out of which 5 years must be in scientific/technical, program/project leadership role.	• Provide overall leadership for the management and growth of the program • Ensure installation of required IT infrastructure, plan the types of biological databases to be developed • Coordinate with international database consortia and biological datacenters like NCBI, EBI etc.	01 Post, Age limit: 50 years
2.	**Senior Scientist (Bioinformatics/ IT)**	PhD with minimum of nine (09) years of experience, or MTech in	• Lead various sub-groups of IBDC on international standard database	01 Post,

		CS/IT/E&C/Bioinformatics/ Computational Biology/Data Science with minimum of twelve (12) years of experience, in an academic setting/industry in the area of bioinformatics/computational biology/data science, out of which 3 years must be in scientific/technical, program/project leadership role.	development or application development related to analysis of biological data • Development of machine learning based data analytics or implementation of leading open source applications for high throughput analysis of biological data on CPU/GPU clusters and cloud	Age limit: 50 years
	Monthly consolidated emoluments up to Rs. 2,04,416			
3.	**Research Consultant** Monthly consolidated emoluments up to Rs. 2,04,416	PhD with minimum of nine (09) years of experience, or MTech in CS/IT/E&C/Bioinformatics/ Computational Biology/Data Science with minimum of twelve (12) years of experience, or BTech in CS/IT/E&C/Bioinformatics/ Computational Biology/Data Science or MCA with minimum fifteen (15) years of of experience in an academic setting/industry in the area of bioinformatics/computational biology/data science, out of which 3 years must be in scientific/technical program/project leadership role.	• To act as domain expert for applications of AI/Machine Learning, Cloud Computing/storage in biological/health sciences • planning and installation of software/tools for applications of Deep Learning in Biology • Collaborate with Parallel programmers to convert/port their application in MPI/MPICH/CUDA etc.	01 Post, Age limit: 50 Years
4.	**Database Manager** Monthly consolidated emoluments up to Rs. 1,24,541	PhD with three (03) years of experience, or MTech in CS/IT/E&C/Bioinformatics/ Computational Biology/Data Science with eight (08) years of experience in an academic setting/industry in design/implementation of modern database technologies, HPC and parallel computing, cloud computing etc.	• Supervise and lead the software developers and work in close coordination with domain experts for database design, application/portal development, and development of APIs etc. for various biological databases to be developed at IBDC • Interact closely with groups managing hardware/OS of IBDC computing resources	02 Posts, Age limit: 40 Years

5.	**Scientist** Monthly consolidated emoluments up to Rs. 1,24,541	PhD with 3 years of experience, or MTech (in any branch of engineering/science) with 6 years of experience in an academic setting/industry in the area of bioinformatics/ computational biology/data science, genomics/proteomics /metabolomics, structural biology, biodiversity etc.	• Act as domain expert and lead person for training and supervising the curators of various databases/resources of IBDC related to his/her area of domain expertise • Design metadata, database schema in coordination with Database Managers • Design the portal for data submission, interact with researchers for data collection and help them in high throughput data analysis	02 Posts, Age limit: 40 Years
6.	**Database Engineer/ Software Developer** Monthly consolidated emoluments up to Rs. 1,07,593	MTech (in any branch of engineering/science) with five (05) years of experience, or BTech /MSc in any branch of engineering/science or MCA with eight (08) years of experience in database/software design/development and programming skills relating to modern database technologies, HPC and parallel computing, cloud computing etc. in IT industry or academic setup	• Database/portal development and installation/testing for new databases/applications developed at IBDC • Mirroring/porting of leading biological data repositories at IBDC	08 Posts, Age limit: 35 Years
7.	**Data Curator** Monthly consolidated emoluments up to Rs. 89,875	MTech in CS/IT/E&C/Bioinformatics/ Computational Biology/Data Science with four (04) years of experience, or MCA/BTech in CS/IT/E&C/Bioinformatics/ Computational Biology/Data Science, or MSc (Biological Sciences) with six (06) years of experience in the area of bioinformatics/ computational biology/data science, genomics/proteomics	• Curation and mining of different types of biological data under supervision of domain experts	08 Posts, Age Limit: 35 Years

		/metabolomics, structural biology, biodiversity etc.		
8	**System Administrator** Monthly consolidated emoluments up to Rs. 89,875	MTech (CS/IT/E&C) with five (05) years of experience, or BTech /MSc in CS/IT/E&C or MCA with eight (08) years of experience in managing and maintaining a large data centre or similar infrastructure. Extensive experience in LINUX environment, experience and knowledge about parallel/distributed computing environments, workload management software in HPC clusters and SMP machines, latest HPC cluster management tools, tools for measuring performance of parallel applications in HPC setup and very good knowledge of state-of-the-art CPU/GPU servers for HPC environment is essential. Desirable: RHCE	• Install and configure software and hardware, upgrade systems with new releases • Manage network servers and technology tool, monitor performance and maintain systems according to requirements, set up accounts and workstations • Troubleshoot issues and outages, ensure security through access controls, backups and firewalls • Develop expertise to train staff on new technologies • Build an internal wiki with technical documentation, manuals and IT policies	02 Posts, Age limit: 35 Years
9.	**Storage Administrator** Monthly consolidated emoluments up to Rs. 89,916	MTech (CS/IT/E&C) with five (05) years of experience, or BTech /MSc in CS/IT/E&C or MCA with eight (08) years of experience in managing and maintaining the state-of-the-art Storage technologies (SAN/NAS), Backup/Recovery in large data centers. Proficient in understanding the storage products and advance troubleshooting and ability to implement High Availability, Work Load Management and Fail Over, Disaster recovery.	• Analyze and resolve called out problems, ensure integrity of supported environment • Actively and pre-emptively figure out possible faults and causes by the execution of pre-determined health checks • Handle and resolve problems identified by system admins or monitoring software • Work with change and problem management tools • Experience with capacity management and planning and performance monitoring • Hardware /software fault detection and vendor liaison	01 Post, Age limit: 35 Years

		Proven experience in executing upgrades, capacity increases, and reallocation of storage resources. Ability to work proficiently within server operating systems (Windows/Linux/ Solaris/AIX) including file system, volume management software, and write scripts and automate tasks. Knowledge of Fibre Channel configurations in storage hardware (HBAs), Fibre Channel switches, including multipath configuration and SAN fabric management. Desirable: Storage Certifications from Leading Manufacturers	• Analyze and resolve raised problems within target • Investigate, identify and document standard operating procedures that will improve application recoverability • Responsible for Backup & Recovery, Implementation of optimum backup plans and overall backup management	
10.	**Network Administrator** Monthly consolidated emoluments up to Rs. 85,333	MTech (CS/IT/E&C) with five (05) years of experience, or BTech /MSc in CS/IT/E&C or MCA with eight (08) years of experience in managing/troubleshooting LAN/WAN and TCP/IP issues, managing large multilayered LAN infrastructure (wired/wireless campus wide LAN), management of hardware/software firewalls and maintaining Network Infrastructure in data centers/HPC clusters Desirable: CCNA/CCNP	• Fully support, install, configure, maintain and upgrade the IBDC networks, servers, and applications • Ensure network security and connectivity • Monitor network performance (availability, utilization, throughput, goodput, and latency) and test for weaknesses • Resolve problems reported by end user • Define network policies and procedures • Time to time firmware upgradations on all networking devices and firewall	01 Post, Age limit: 35 Years
11	**Senior Programmer**	MTech in CS/IT/E&C with five (05) years of experience, or BTech/MSc in CS/IT/E&C or MCA with	• Tech Lead in deep learning to port cutting-edge Sentiment Analysis/ deep learning/ machine learning/ other models onto multi-GPU	01 Post, Age limit:

	Monthly consolidated emoluments up to Rs. 74,833	eight (08) years of experience in CUDA programming, in addition to proficiency in a widely used programming language like C++, JAVA, PERL, Python, JSP, SQL etc. Experience in Data as a Service and Continuous Analytics as a Service, leveraging Artificial Intelligence and advanced analytics. Experience with NVIDIA System Profiler, Nsight Compute, NVIDIA RAPIDS Hands on experience with CUDA- X (CUDA v10), a collection of GPU-accelerated libraries built on CUDA, to provide the fastest path to accelerate a wide range of HPC applications. Experience with machine learning software platforms that leverage GPGPU compute such as Tensor Flow, Pytorch, KERAS, etc. will be an added advantage.	servers. Conversion of existing CPU based models to GPU accelerated models • Research and development on GPU based Databases like MapD, Optimization of existing computer vision application using GPU profilers	35 Years
12.	**Administrative Officer** Monthly consolidated emoluments up to Rs. 56,166	Graduate with five (05) years of experience in office administration and finance, understanding of HR and finance rules of the GOI is desirable.	• Assist in human resource management • Manage project accounts and resources • Carry out administrative tasks related to the project	02 Posts, Age Limit: 35 Years
13.	**Programmer** Monthly consolidated emoluments up to Rs. 46,708	BTech/MSc in CS/IT/E&C or MCA with four (04) years of experience in programming languages like C++, JAVA, PERL, Python, JSP, SQL, GPU	• Provide Continuous Analytics as a Service, leveraging Artificial Intelligence and advanced analytics • Work in the area of deep learning to port cutting-edge	02 Posts, Age limit:

		programming, Parallel programming and providing data services. Experience with machine learning software platforms that leverage GPGPU computing such as TensorFlow, Pytorch, KERAS, etc. is an added advantage. Hands on experience with CUDA- X (CUDA v10), a collection of GPU-accelerated libraries built on CUDA, to provide the fastest path to accelerate a wide range of HPC applications.	Sentiment Analysis/ deep learning/ machine learning/ other models onto high end multi-GPU servers, Conversion of existing CPU based models to GPU accelerated models. • Research and development on GPU based Databases like MapD Optimization of existing computer vision application using GPU profilers	35 Years
14.	**Technical Assistant-A** Monthly consolidated emoluments up to Rs. 41,041	BTech/MSc in CS/IT/E&C or MCA with three (03) years of experience in hardware/network management	• Data entry operations • Providing support in usage/management of IT infrastructure	03 Posts, Age Limit: 35 Years
15.	**Technical Assistant-B** Monthly consolidated emoluments up to Rs. 41,041	MSc in any branch of Life Sciences with knowledge of programming, webserver design, database and portal development.	• Biological Data entry and providing application support for bioinformatics/computational biology software	01 Post, Age Limit: 35 Years

The application format is available on our website **www.rcb.res.in.** Interested candidates should fill their applications online with the requisite non-refundable fee of Rs. 1000/- (SC/ST/PH/Women candidates are exempted from payment of fees) **latest by 18 July, 2020.**

Refund of unsuccessful or duplicate transactions may be claimed up to 1 month from the last date of submission of applications, after that no request will be entertained**.**

TERMS AND CONDITIONS

1. The positions will be on contract, initially till the duration of the project (13 March 2021) which may be extended subject to extension of the project duration and at the discretion of the Competent Authority as per the requirement of the Centre.
2. The positions are subject to periodic evaluation of the performance of the incumbent and if, on such evaluation the performance is not found to be satisfactory, the contract will be terminated with one-month notice.
3. The appointment will be on full-time basis and he/she will not be permitted to take up any other assignment during the period of contract. The contract may be terminated by either party by giving one-month advance notice in writing.
4. The consolidated emoluments shown above are only indicative and shall be decided by the selection committee for the selected candidate based on his/her relevant experience and qualification. No other perks or allowances are admissible.
5. The incumbent will be required to conform to the rules and regulations of RCB in force from time to time and follow the discipline rules of the Centre failing which the contract may be withdrawn at any point of time.
6. The incumbent will not be considered to be a permanent employee of the Center and conferment of this contract will not imply any assurance or guarantee for regular employment in the Centre. The incumbent shall not claim for regularization or absorption in the Centre. However, the incumbent may apply for the advertised posts subject to meeting eligibility criteria for the post and as per institutional policy.
7. All educational, professional and technical qualifications should be from a recognized Board/ University. Experience shall be counted for work done after the qualifying degree for the position.
8. Persons working in Govt. or Public Sector Undertaking should apply through proper channel or produce 'No- Objection Certificate' at the time of selection process.
9. Outstation SC/ST candidates called for interview will be paid to & fro second-class railway fare, as per GOI rules on production of the proof of the same.
10. Canvassing in any form will be a disqualification.
11. Vacancy shown above is indicative only and the number may increase or decrease as per requirement and at the discretion of the Competent Authority.
12. Mere fulfilment of the minimum prescribed qualification and experience will not vest any right on a candidate for being called for the selection process. Only the candidates shortlisted by a duly constituted Screening Committee will be called. The decision of the Centre in this regard will be final. No interim inquiries in this regard will be entertained.
13. The candidates should submit separate application for separate post.
14. The incumbent will be entitled for leave as admissible to the contractual staff of the Centre. The un-availed leave cannot be carried forward or encashed.
15. Age relaxation as per GoI norms is available to eligible applicants.

16. Any dispute arising out of this advertisement including the recruitment process shall be subject to the sole jurisdiction of the Courts situated at Faridabad, Haryana.
17. Candidate canvassing/giving incorrect information/violating norms in any kind, detected at any stage, before or after the selection will be disqualified with immediate/retrospective effect, as the case may be.
18. The decisions of the Competent Authority, RCB will be final and binding in all cases.

(Registrar)