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

UNESCO
United Nations
Educational, Scientific and
Cultural Organization

RCB
क्षेत्रीय जैव प्रौद्योगिकी केन्द्र
Regional Centre
for Biotechnology

Dated: 01.07.2022

ADVERTISEMENT NO. RCB/IBDC/01/2022/Rectt./HR
RECRUITMENT FOR CONTRACTUAL POSITIONS UNDER THE PROJECT "SETTING UP OF THE INDIAN BIOLOGICAL DATA CENTRE (IBDC), PHASE-1"
AT REGIONAL CENTRE FOR BIOTECHNOLOGY, FARIDABAD

Regional Centre for Biotechnology (RCB) is an institution of national importance and statutory body established by the Department of Biotechnology, Govt. of India with regional and global partnerships synergizing with the programmes of UNESCO as a Category II Centre. The primary focus of RCB is to provide world class education, training and conduct innovative research at the interface of multiple disciplines to create high quality human resource in disciplinary and interdisciplinary areas of biotechnology in a globally competitive research milieu.

RCB, with support from the Department of Biotechnology, Govt. of India, is setting up the Indian Biological Data Centre (IBDC) for storage and distribution of biological data at RCB.

Applications (in online mode) are invited from dynamic, result-oriented and dedicated eligible candidates for the following contractual positions:

S. No.	Name of the post & Monthly Emolument	Qualifications & Experiences	Job Description	No. of post(s) & age limit
1	**Senior Scientist (Bioinformatics/IT)** Monthly consolidated emoluments up to Rs. 2,04,416 based on the relevant experience of the candidate.	**Essential:** 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, 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.	• Lead various sub-groups of IBDC on international standard database 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.	**02 Posts** **Age limit:** 50 years
2 (i)	**Research Consultant** Monthly consolidated emoluments up to Rs. 2,04,416 based on the relevant experience of the candidate.	**Essential:** 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 experience in an academic setting/ industry in the area of bioinformatics/ computational biology /data science, out of which 3 years must be in	• 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

			scientific/ technical program/ project leadership role.		
(ii)	**Research Consultant** (Security consultant, IT) Monthly consolidated emoluments up to Rs. 2,04,416 based on the relevant experience of the candidate.	**Essential:** PhD with minimum of nine (09) years of experience, or MTech in CS/IT/E&C/ with minimum of twelve (12) years of experience, or BTech in CS/ IT/E&C or MCA with minimum fifteen (15) years of experience in an academic/industry setting as Security consultant (or equivalent).	• To act as domain expert for applications of AI/Machine Learning, Cloud Computing/ storage in biological/ health sciences. • Architecting, designing secured web applications/ audit codes for threats, vulnerabilities, implement security, design and implement policies and tools to protect data from external/internal attacks/theft etc.	**01 Post** **Age limit:** 50 Years
3	**Scientist** Monthly consolidated emoluments up to Rs. 1,24,541 based on the relevant experience of the candidate.	**Essential:** PhD with three (03) years of experience, or MTech (in any branch of engineering/ science) with six (06) 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.	**01 Post** **Age limit:** 40 Years
4 (i)	**Database Manager** Monthly consolidated emoluments up to Rs. 1,24,541 based on the relevant experience of the candidate.	**Essential:** 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.	**03 Posts** **Age limit:** 40 Years
(ii)	**Database Manager** (IT Security Analyst/ Manager) Monthly consolidated emoluments up to Rs. 1,24,541 based on the relevant experience of the candidate.	**Essential:** PhD with three (03) years of experience, **or** MTech in CS/IT/E&C with eight (08) years of experience in an academic/industry setting as IT Security analyst/manager (or equivalent).	• Security analysis, administration, design, implement, protect against unauthorized access, troubleshoot access issues, help implementing organizations security policies, monitor, and control secured IT infrastructure using different hardware, software, tools and utilities. • Interact closely with groups managing hardware/OS of IBDC computing resources.	**01 Post** **Age limit:** 40 Years
5	**Database Engineer/ Software Developer**	**Essential:** MTech (in any branch of engineering/ science) with five (05) years of	• Database/portal development and installation/testing for new databases/applications developed at IBDC.	**5 Posts** **Age limit:** 35 Years

	Monthly consolidated emoluments up to Rs. 1,07,593 based on the relevant experience of the candidate.	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.	• Mirroring/porting of leading biological data repositories at IBDC.	
6	**Data Curator** Monthly consolidated emoluments up to Rs. 89,875 based on the relevant experience of the candidate.	**Essential:** 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/metabolomics, structural biology, biodiversity etc.	• Curation and mining of different types of biological data under the supervision of domain experts.	**9 Posts** **Age Limit:** 35 Years
7 (i)	**System Administrator** Monthly consolidated emoluments up to Rs. 89,875 based on the relevant experience of the candidate.	**Essential:** 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 center 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
(ii)	**System Administrator** (Security Administrator) Monthly consolidated emoluments up to Rs. 89,875 based on the relevant experience of the candidate.	**Essential:** 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 center 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	• Install and configure software and hardware, upgrade systems with new releases, maintain devices with latest security patches and recommendations. • 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.	**01 Post** **Age limit**: 35 Years

		Essential / Desirable	Responsibilities	Posts / Age
		applications in HPC setup and very good knowledge of state-of-the-art CPU/ GPU servers for HPC environment is essential. **Desirable:** RHCS	• Develop expertise to train staff on new technologies. • Build an internal wiki with technical documentation, manuals and IT policies.	
8	**Storage Administrator** Monthly consolidated emoluments up to Rs. 89,916 based on the relevant experience of the candidate.	**Essential:** 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. 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 Fiber 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 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. • 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.	**02 Posts** **Age limit**: 35 Years
9	**Network Administrator** Monthly consolidated emoluments up to Rs. 85,333 based on the relevant experience of the candidate.	**Essential:** 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.	**02 Posts** **Age limit**: 35 Years

10	**Senior Programmer** Monthly consolidated emoluments up to Rs. 74,833 based on the relevant experience of the candidate.	**Essential:** MTech in 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 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.	• Tech Lead in deep learning to port cutting-edge Sentiment Analysis/ deep learning/ machine learning/ other models onto 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.	**01 Post** **Age limit**: 35 Years
11	**Administrative Officer** Monthly consolidated emoluments up to Rs. 56,166 based on the relevant experience of the candidate.	**Essential:** 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.	**01 Post** **Age Limit:** 35 Years
12	**Programmer** Monthly consolidated emoluments up to Rs. 46,708 based on the relevant experience of the candidate.	**Essential:** 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 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.	• Provide Continuous Analytics as a Service, leveraging Artificial Intelligence and advanced analytics. • Work in the area of deep learning to port cutting-edge 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.	**03 Posts** **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/- **latest by 25.07.2022.** SC/ST/PH/Women candidates are exempted from payment of fees.

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 for a period upto 12.03.2023, which may be extended further at the discretion of the Competent Authority as per the requirement of the Centre. The duration of the project is likely to be extender further.

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 relevant 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, if 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 posts.

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. In all other cases. if a candidate is otherwise suitable, age/experience relaxation may be granted by the Competent Authority.

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. Candidates 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.

Note: Applicants who are already in regular government service and willing to apply for the above contractual positions are advised to take prior permission from their parent organization for the same. In the event of selection, such candidates are to ensure their relieving within 30 days of the offer, so as to join the position within the specified period. No request for extension of joining period shall be entertained under any circumstances. The positions are contractual only with consolidated emoluments and shall not be eligible for any pay level salary, perks & allowances. During the contract period of the employee, RCB shall not have liability of any kind to his/ her parent organization.

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(Controller of Administration)