गणितीय विज्ञान संस्थान

THE INSTITUTE OF MATHEMATICAL SCIENCES

(An Autonomous Institution, under Dept. of Atomic Energy, Govt. of India)

4th Cross Road, CIT Campus, Taramani, Chennai 600 113.

विज्ञापन संख्या / **Advt No.16-R/IMSc/2023**   **Dated: 2.1.2024**

TABLE – I : PROJECT POSITIONS

Applications are invited for filling up the following Project positions under the Apex Project of the Institute on consolidated salary from the eligible candidates who fulfill requisite qualifications/ specifications mentioned therein. The position indicated under the project, are proposed to be filled purely on contract basis only upto 25.11.2024 from the date of appointment and there is no scope of continuation / regularization / absorption under any circumstances.

Sl. No	Title of the Sub Project	Name of the Project Position	Number of positions	Selection Method	Minimum Educational Qualifications & Experience	Consolidated Salary (all inclusive &no other allowances are allowed) p.m	Mail Id to which CV and a statement of research interest to be sent	Last date for submission of applications for each position through E-mail shown under col. (7)	Date of written test / interview
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
1.	First passage of intermittent random walk searchers – applications to statistical physics, biological and chemical processes SERB Project **(for five months)**	*JRF*	01	Online Interview for final selection	**Educational Qualification :** B.Tech / B.E / MSc with 60% marks (first class) and sound background in Physics. **Desirable :** Candidates should have a good understanding of statistical physics and must know	Rs 46,500/-	fpur@imsc.res.in	26.1.2024	*Will be informed later.*

					programming languages such as c++, Matlab, or Phython. Preference will be given for NET / JEST / GATE qalified students.			
2	Management of IMSc IT Infrastructure : Computing Media and Web	*Technical Assistant (Systems)*	*01*	1. Written test 2. Hands-on Test for those who qualify in written test 3. Personal interview	**Essential :** Should have completed one of the degrees on a regular basis Bachelor Degree in Science (Physics/ Mathematics / Computer Science / IT) (OR) Bachelor Degree in Computer Applications - (OR) Bachelor Degree in Engineering (Computer Science/ECE/ EEE/IT) (OR) Master Degree in Science (Physics/Mathematics/ Computer Science/ IT) (OR) Master Degree in Computer Applications from a reputed College/Institution/University with minimum of 60% marks aggregate of all years / semesters. **Experience :** One year working experience in system administration, system support	**Rs. 26,500/-** - - - - - - - - - - - **Rs. 46,500/-**	**https:// www.imsc.res.in/ ta_systems**	**26.1.2024**	*Will be informed later.*

					after acquiring the essential educational qualification. **Desirable :** - Knowledge of basic computer troubleshooting, Format , Installation & Configurations, Data Backup, Diagnosis of Hardware. - Experience in programming using C, MySQL, Perl, PHP, Python, Shell Scripting under Linux . - Completed I.T. courses covering Linux/Unix OS. Experience in programming using C, MySQL, Perl, PHP, Python, Shell Scripting, Networking . - Candidates possess at least one year work experience in maintaining Linux/Unix systems, Network equipments are preferred. **Nature of duties:** Day-to-day maintenance of computer system components, printers, scanners,modems, switches, WiFi, OS installation, configuration customization of				

				desktops, first level of trouble shooting of system problems and fixing of the same, setting up for multimedia projection, Video-conferencing, web-casting, etc.,Monitoring the quality of LAN/Internet bandwidth in liaison with System Administrators of the Institute.				
3	Management of IMSc IT Infrastructure : Computing Media and Web	*Technical Assistant (ERP)*	*02*	1. Written test 2. Hands-on Test for those who qualify in written test 3. Personal interview	**Essential** : Should have completed one of the degrees on a regular basis Bachelor Degree in Science (Physics/ Mathematics / Computer Science / IT) (OR) Bachelor Degree in Computer Applications - (OR) Bachelor Degree in Engineering (Computer Science/ECE/ EEE /IT) (OR) Master Degree in Science (Physics/Mathematics/Computer Science/ IT) (OR) Master Degree in Computer Applications from a reputed College / Institution with minimum of 60% marks in aggregate of all years / semesters.	**Rs. 26,500/-** ---------------- **Rs. 46,500/-**	**https:// www.imsc.res.in/ ta_systems**	**26.1.2024**	*Will be informed later.*

					Experience : One year working experience in development of web applications and UX / UI development after acquiring the essential educational qualification. **Desirable** : • Proficiency in Web Design, Web Application Development using PHP, AJAX, JQuery, JS, Postgre sql, Mysql. • work experience in developing ERP/ MIS/ Office Automation application software for one of the Centrally Funded Institutes. • work exposure in ERP / Open ERP and having background of accounting. **Nature of duties:** Design, development, and support of ERP/ Office automation applications.				
4	Management of IMSc IT Infrastructure : Computing Media and Web	*System Trainees*	*02*	1. Written test 2. Hands-on Test for those who qualify in written test 3. Personal interview	**Qualification:** **Essential** : Should have completed one of the degrees Bachelor Degree in Science (Physics/ Mathematics /	**Rs. 20000/-**	**https:// www.imsc.res.in/ ta_systems**	**26.1.2024**	*Will be informed later.*

					Computer Science / IT) (OR) Bachelor Degree in Computer Applications (OR) Bachelor Degree in Engineering (Computer Science/ ECE/EEE/ IT) from a reputed College / Institution with minimum of 60% marks in aggregate of all years / semesters.				
5	Geometric Methods for Deep learning and Topological Characterization Of Complex networks	*Project Assistant (House keeping & Catering)*	*01*	Written test followed by interview only short listed candidates on the same day. (or) Direct interview in case no. of candidates appeared for written test is five or less.	**Essential Qualifications :** Three year BSc Degree (after HSC) in Hotel & Catering Management from a reputed College/ Institution / University approved by the Government with minimum of 50% marks. **(OR)** M.Sc with 50% marks with relevant experience. **Essential Experience :** Minimum of five (5) years of post qualification experience in the field of House Keeping management in reputed Institute / Hotel with familiarity in Computers, Customer care, cleaning of various surfaces with good communication skills. **Desirable skills & Responsibilities :** Upkeep of buildings of the Institute, wash rooms, common places, High standards of customer care and performance, Maintaining the	**Rs. 31,000/- for those with five or more years of experience after B.Sc (OR) Rs. 46,000/- for those with two or more years of experience after M.Sc**	*pahktwo@imsc.res. in*	*26.1.2024*	*Will be informed later.*

				Registers, supervising duties of House Keeping cleaners, allotment of office rooms, Guest house rooms & hostel rooms, etc.					
6	IMSc Centre for Disease Modeling	*Research Associate*	*01*	Applicants are required to submit a curriculum vitae, a research statement no longer than two pages, and arrange for two letters of recommendation from experts sent directly to the following email id: icdm_ra23@imsc.res.in . The applicants will be shortlisted initially based on their qualifications, expertise and experiences relevant to the project. The shortlisted candidates will be interviewed online.	**Minimum qualifications:** The candidate should have a Ph.D. degree or should have submitted their doctoral thesis in areas related to the mathematical or computational sciences. **Essential skills:** The candidate should have expertise in programming languages such as Python, and/or R. **Desirable skills:** Strong backgrounds in genomics and/or statistical analysis of large datasets are encouraged to apply. **Overview of the project:** The selected candidate will work mainly on developing models and pipelines for single-cell transcriptomics and proteomics studies. During the duration of the project, the RA is also expected to work on other areas of computational biology. The selected candidate will work with Sandeep Choubey and Dhiraj Hazra.	**Rs.53,000/-**	**icdm_ra23@imsc.res.in**	**26.1.2024**	*Will be informed later.*

7	IMSc Center of Excellence in Complex Systems and Data Science (CoE-CSDS)	*Research Associate*	02	**Online Interview of shortlisted candidates**	**Minimum qualification** PhD in Physics / Mathematics / Computer Science / any branch of Engineering or Sciences with at least one year of post-doctoral experience.	**Rs. 77,000/- for 1 – 2 yrs of experience.** **Rs. 85,000/- for 2 or more years of experience**	**http://tinyurl.com/5yu4z4pn**	**26.1.2024**	*Date of online interview : 5.2.2024*
8	Modelling of soft materials	*Research Associate*	01	Shortlisting of candidates followed by interview	**Minimum qualifications:** The candidate should have a PhD degree -------------------------------------- OR submitted his/her doctoral thesis in Physics, and at least 2 publications in indexed international journals. **Desirable:** (Specific requirements for the position) The selected candidate will work with Dr Satyavani Vemparala (and possibly other faculty within Soft Matter group) on a project whose goal is to do the modelling of polymers. The candidate should necessarily have excellent command over statistical mechanics, and molecular dynamics programming. A background in research in biological physics is strongly desirable.	**Rs. 53,000/-** (PhD thesis submitted, degree not obtained) **Rs 73,500/-** (degree obtained, no postdoc experience) **Rs. 77,000/-** for 1 – 2 yrs of experience**.** **Rs. 85,000/-** for 2 or more years of experience	**vani@imsc.res.in**	**26.1.2024**	*Date of interview will be announced later.*
9	Design and Development of	*Project Technical*	01	Screening test on required skill sets to shortlist the	**Essential Qualification** : Masters in Library and	**Rs. 53,000/- for those having**	**talibrary@imsc.res.in**	**26.1.2024**	**Will be informed**

| Integrated Online Information Resource Management System, Library, Alumni, Annual Report & Publications | *Assistant (Library)* | | candidates and have to face the personnel interview towards the final selection. | Information science ((MLISc / M.Sc Library and Information Science) with first class.

Essential Experience:
a. Minimum 2 years experience in academic / research libraries in handling all Library functions and services.
b. Experience in handling research publications, citation databases and archiving.
c. Knowledge of basic computer operations and office applications such as Word, Excel etc.

Desirable:
Candidates should have working knowledge in library management software (koha/Libsys etc), Institutional repository software (DSpace/Eprints etc) in Linux environment and excellent technical & communication skills.

Deliverables:
The incumbent will involve in Library and Information activities which include various library operations such as acquisition of content (both print and Digital), Classification, Cataloguing & Organization of Information Resources, Library Records Management, | **two or more years of experience** | | | **later.** |

				Document Delivery Services, Digital Information Services, Research Support Services, Processing of research publications, RFID, Web based Information Services, Scanning and Organising Archival Materials such as Photographs, thesis, reports etc, using state of the art technologies and systems.				
10	Design and Development of Integrated Online Information Resource Management System, Library, Alumni, Annual Report & Publications	*Project Technical Assistant (Computer)*	*01*	Screening test on required skill set to shortlist the candidates followed by a personal interview.	**Essential Qualification :** Bachelors Degree in Science / Computer Applications	**Rs. 26,500/-**	**https:// www.imsc.res.in/ ta_systems**	**26.1.2024**	**Date of interview will be intimated later**
					OR Bachelors Degree in Engineering (Computer Science / ECE/ EEE/ M.Sc / M.Tech (computer science) / Computer Applications / Engineering (Computer Science / ECE / EEE/ IT) from a reputed and recognised College with minimum of 60% marks in aggregate of all years / semesters. The position is expected to work on the IMSc Annual Report, IMSc Alumni and Library Management Systems which involves: a) Developing a new annual report system based on Linux, MySql/MariaDB, Python	**Rs. 46,500/- for candidates without any experience** **Rs. 53,000/- for candidates with two or more years of experience**			

					and LaTeX b) Developing a new system with interface to capture alumni data such as profile with publications and employment history etc c)Assisting in design, development of new features in the library management and archives systems. **Specific Requirement :** Proficiency in developing software in linux/unix OS using MySQL, PHP, Python **Desirable :** a) Completed I.T. courses covering HTML/PHP, Python, MySQL, LaTeX. b) Experience in similar academic & research organisation				
11	Compilation, curation and exploration of the Phytochemicals space of Indian medicinal plants	*Project Assistant*	*02*	Shortlisting of candidates followed by Online Interview	**Essential Qualification:** Candidate should have: (1) Masters degree in Life Sciences or Bioinformatics or Computational Biology from a reputed university or institute, (2) Qualified a national level examination CSIR JRF/NET or GATE or have research publications, and (3) Research work relevant to the project. Knowledge of	**Rs. 46,500/-**	**phyt1@imsc.res.in**	**26.1.2024** **Shortlisted candidates will be intimated by 30.01.2024**	**Date of interview will be announced later.**

					manual curation of biological datasets, chemical spaces and/or network science is desirable. The selected candidate will work with the project investigator Prof. Areejit Samal.					
12	Compilation, curation and exploration of the Phytochemicals space of Indian medicinal plants	*Project Assistant*	*01*	Shortlisting of candidates followed by Online Interview	**Essential Qualification:** Candidate should have: (1) B.Sc., B.C.A. or B.Tech. degree or higher degree in Computer Science or Allied areas from a reputed university or institute, (2) Previous experience in software and/or web development. Prior experience of working in Linux environment, web development and database management is desirable. The selected candidate will work with the project investigator Prof. Areejit Samal.	**Rs. 26,500/-**	**phyt1@imsc.res.in**	**26.1.2024** **Shortlisted candidates will be intimated by 30.01.2024**	**Date of interview will be announced later.**
13	Computational Biology at IMSc	*Project Assistant*	**01**	Shortlisting of candidates followed by Online Interview	**Essential Qualification:** Candidate should have: (1) Masters degree in Computational Biology or Bioinformatics or Life Sciences from a reputed university or institute, (2) Qualified a national level examination CSIR JRF/NET or GATE or have research	**Rs. 46500/-**	*tox1@imsc.res.in*	**26.1.2024** *Shortlisted candidates will be intimated by 30.01.2024*	*Date of interview will be announced later.*

				publications, and (3) Research work relevant to the project. Knowledge of either network science, data science, chemical spaces, or manual curation of biological datasets is desirable. The selected candidate will work with the project investigator Prof. Areejit Samal.				

B] AGE LIMIT : The Candidates should be less than 40 years of age as on the last date of receipt of applications.

TABLE -II - Administrative Trainees & Library Trainees:

Sl. No	Name of the traineeship	Educational and other Qualifications	No. of positions	Age limit	Selection procedure	Who should appear for written test, on which date & at which venue	Stipend during the Training period	Training areas after selection	Unique email ID
[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]
1.	Administrative Trainee	**Essential :** - Any bachelor degree with First Class & with good English knowledge. - Should have **passed out during 2022 & 2023 only**. - The candidate should possess good working knowledge in MS-Office tools & email operations & Accounting procedure.	04	Minimum 18 years and maximum 25 years as on last date of receipt of application	The Selection will be made on merit basis through a written test, typing test on Computer followed by interview, all of which will be conducted on the same day. Only those candidates who qualify in written test and typing test (held in the forenoon) will be called for interview (proposed for Afternoon) on the same day.	**Only those candidates whose names are shortlisted & displayed by us on IMSc website under Opportunities page > Other Positions are to appear for written test, the date of which will also be announced along with the above list.**	Rs.20,000/- per month (Consoli-dated and all inclusive)	To provide the basic input of confidence in the minds of fresh qualified youth and tune him/her to the practicalities of the Office clerical working environment (purely clerical nature of training). To undergo clerical training in various wings of IMSc office and other clerical assistance to IMSc Office staff on five day week basis.	admntrainee@imsc.res.in
2	Library Trainee	**Essential :** MLISc Degree with first class and with good English knowledge. - Should have **passed out during 2022 & 2023 only**. **Desirable :** - Preference will be given to those candidates who have pursued the degree as	01	Minimum 22 years and Maximum 27 years as on last date of receipt of application and no experience is required.	The Selection will be made on merit basis through a written test. Only those candidates who qualify in written test will be called for interview (proposed for Afternoon).	**Only those candidates whose names are shortlisted & displayed by us on IMSc website under Opportunities page > Other Positions are to appear for written test, the date of which will also be announced along with the above list.**	Rs.20,000/- per month (Consoli-dated and all inclusive)	To undergo training in Library including **RFID enabled library automation, technical processing,** arranging of books in the book racks, photocopying, binding, file management and other assistance to Library staff on six day week basis.	librarytrainee@imsc.res.in

		regular academic course.						

➢ The period of training will be purely for **ONE YEAR** from the date of admission with no guarantee of regular employment (or) absorption (or) continuation (or) confirmation under any circumstances.