# 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

## Advt No.12-R/IMSc/2019 dated July 17, 2019

The Institute of Mathematical Sciences (IMSc), Chennai is a National Institute of higher learning which fosters high quality fundamental research in frontier disciplines of Mathematical Sciences. IMSc has intensive teaching programme for award of M.Sc (by Research) and Ph.D. Degree.

Applications are invited for filling up the following Project position under the new Scientific / Academic Apex Projects of the Institute on consolidated salary from the eligible candidates who fulfill requisite qualifications/ specifications mentioned therein. The position indicated under the project concerned, is proposed to be filled purely on contract basis only initially for a period of one year from the date of appointment but extendable subject to performance & subject to approval of the competent authority up to 3 years & not beyond. There is no scope of continuation / regularization / absorption under any circumstances.

## [A] PROJECT POSITION:

### Table – I

| Title of the Project | Name of the Project Position | No. of posts | Minimum Educational Qualifications & Experience | Consolidated Salary (all inclusive & no other allowances are allowed) | Last date for on-line submission of applications |
|---|---|---|---|---|---|
| (2) | (3) | (4) | (5) | (6) | (7) |
| | | | | Rs. | Date & Time |
| Management of IMSc IT Infrastructure : Computing Media, Web 2019-2022. | *Project Technical Assistant (HPC)* | 01 (One) | **Qualification:** Candidates should have completed *any of the Master Degree in Science* (Physics, Mathematics, Computer Science, IT, Computer Applications, etc.,) **[OR]** *Bachelor Degree in Engineering* (preferably Computer Science, ECE, EEE, IT) from a reputed College / Institution **AND** with the specified experience of **minimum 4 years** as described for the position. | 55,000/- | 09/08/2019 [Friday] 1700 hrs |
| | | | **Required Specific experiences :** **Linux NW Server related:** Expected to assist System Administration work of LINUX Server/Cluster s in the datacenter of the IMSc LAN; Shell Scripting under LINUX O/S; Segmenting of IPv4 networks; Configuring & maintaining NIS/LDAP, DNS, DHCP, IPTABLES, SMTP, etc., Generating email alerts from Server/Cluster H/Ws, Environments; Trouble shooting of server/cluster H/Ws, O/Ss, & S/Ws problems and fixing of the same; Interfacing of high speed networks using Ethernet, IB, Omnipath, etc., and Bonding/Cascading of interfaces Installation & Maintenance of HA servers, Virtual servers, etc.; **Cluster related:** Cluster Topology, Installation, Configuration (Linux, Warwulf/ Rocks/xCat, Puppet, Slurm/PBSPro) and Updates, Performance tune of Clusters; Cluster Job - Management, Monitor, Schedule Cluster application monitoring / packaging / version controls; running benchmarks; virtualisation of servers (LXC, KVM, DOCKER); Day-to-day monitoring of data-center UPS, AC, various Sensors, BMS, etc. | | |
| | | | **Desirable Experiences :** Completed I.T. courses [OR] Certifications covering Linux/ Unix O/S/APACHE/PHP/PyThon/HPC/etc., | | |

| | | | | Experience in programming using C, MySQL, Perl, PHP, Python, Shell Scripting under LINUX O/S.<br><br>Work exposure in ERP / Open ERP and having background of accounting are added advantage.<br><br>Candidates possess work experience in maintaining LINUX / UNIX systems in the LAN environment are preferred.<br><br>Attended workshops on HPC. Cluster design, install, administration and maintenance.<br><br>Parallel shell scripts, IP v4 sub-netting, booting/halting of multi-nodes, IPMI/KVM console operations;<br><br>**Exposure in Computational Sciences, MPI/GPU programming etc.**<br><br>Cluster Storage – I/O nodes with Parallel/Lustre File System, MDS, MDT etc., Disk array/ Enclosures, Configured with Fat-Tree & multi-path topology, Multi-volume configuration, Volumes mounted on Compute/Master cluster nodes;<br><br>Monitoring the cluster usage per user, report generation, etc.,<br><br>Completed IT Projects including design / implementation. Exposure of handling IT projects in the LINUX environments is added advantage. | | |

## [B] GENERAL INFORMATION :

Interested candidates are requested to apply using on-line portal with the URL **https://www.imsc.res.in/apply_ta/**

### Note :

1) Mails sent on or after **1700 hrs on 09/08/2019[Friday]** will not be considered under any circumstances.

2) Depending on the number of candidates respond to this advertisement, the Institute will decide whether to conduct a brief objective type written test of about one and half hour duration [1000hrs to 1130 hrs] (OR) to go with direct interview.

3) Only those candidates who are meeting the minimum educational qualifications & experience mentioned in the advertisement will be eligible to appear for Written test / interview. Hence screened list of candidates will be displayed by us after verifying their candidature on the **"Opportunities page"** of the Institute's website [www.imsc.res.in] on **14/08/19 [Wednesday]**. Therefore, short listed candidates whose names are displayed by us on Opportunities page only need to come and appear for Written Test / Interview on **23/08/2019 [Friday]**

4) The Institute will arrange to send call letters to respective emails only to those shortlisted for written test / interview. The candidates should bring the call letters along with them when they appear for written test / interview on respective date without fail. They should also bring one copy of valid proof of ID card with original (like AADHAR/Driving License/ Passport / VoterID).

**Table – II :**

| Venue of Written test / Interview on 23/08/2019 [Friday] | |
|---|---|
| To report for Written Test at 0930 hrs at | Interview on the same day of written test<br>(if written test is not prescribed interview will be held on the same day) |
| Ramanujan Auditorium | Venue for Interview will be announced at the time of written test (or) at Ramanujan Auditorium while we take attendance of the candidates [only for those who clear the Written Test, if conducted] |

## IMPORTANT:

1. The candidates should on their own attend for written test on the date mentioned above.

2. All those candidates who have been short listed for the Project position are requested to **report sharp at 0930 hrs on the dates of written test / interview as indicated at Ramanujan Auditorium, IMSc and sign the attendance statement without fail.** The candidates also should bring along with them all original certificates and one set of copies of all certificates as to proof of age, educational qualification, and experience etc.

3. The list of successful candidates of the written test, will be displayed on the notice board on the same day along with venue details for interview. Only those candidates who clear the written test are required to appear for Interview, time of which will be announced at the written test venue. If only interview is decided, the candidates will be guided accordingly at Ramanujan Auditorium while signing the attendance statement.

4. Hard copies of applications/resume sent by hand/mail/post/courier will not be accepted under any circumstances.

## General Conditions:

1. The prescribed qualifications are minimum and mere possession of the same does not entitle the candidate to be considered for the advertised position.

2. **The decision of the Director of this Institute in all matters will be final and no enquiry or correspondence will be entertained in this matter.**

3. Outstation candidates belonging to SC/ ST appearing for interview on passing the written test only will be reimbursed to and fro second class railway fare/ bus fare or actual fare incurred which ever is less by the shortest route form the station of residence/ work place to Chennai & back on production of tickets.

4. Please visit "Opportunities Page" of our website www.imsc.res.in for full details of advertisement, screened list of candidates and visit "Getting here" page to know location information of our Institute.

**REGISTRAR**