

# THE INSTITUTE OF MATHEMATICAL SCIENCES

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

4<sup>th</sup> Cross Road, CIT CAMPUS, THARAMANI, CHENNAI 600 113.

**Advt No./08- R/IMSc 2013**

**June 28, 2013**

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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. Applications are invited for filling up of the following temporary positions from the eligible candidates who fulfill requisite qualifications/ specifications mentioned therein. The positions are proposed to be filled purely on contract basis under ongoing plan projects of the Institute initially for a period of one year and may be continued further only for a limited period and there is no scope of continuation / regularization / absorption under any circumstances. IMSc is home to a growing community with scientists working on Complex Systems, Computer Modelling and Analysis of Economic / Financial Data & Networks, particle physics and other interdisciplinary fields.

Sl. No	Name of the Project	Position and Code No.	No. of Positions	Selection Method	Minimum Qualifications	Consolidated Salary
1	IMSc Complex Systems	Project Assistant <u>Code No: 1/7</u>	ONE	Written test followed by interview for shortlisted candidates	B.E/B.Tech/M.Sc from a reputed Institute with a good background either in physical/mathematical sciences or engineering or in biology, have some experience in using analytical & computational techniques, and have a strong interest in biological systems. Knowledge of MATLAB or equivalent scientific software is desirable.	<b>Rs. 16,000/- p.m. + HRA @ 30% on Consolidated Salary.</b>
2	Project: Computer Modelling and Analysis of Economic/Financial Data & Networks	Project Assistant <u>Code No: 2/7</u>	ONE	Written test followed by interview for shortlisted candidates	B.E./B.Tech/M.Sc from a reputed institution with a good background either in physical / mathematical sciences or engineering, have some experience in using analytical & computational techniques. Knowledge of MATLAB or equivalent scientific software is desirable.	<b>Rs. 16,000/- p.m. + HRA @ 30% on Consolidated Salary</b>
3	Trust Areas in Theoretical Physics “High Energy Physics Phenomenology Group”	Project Assistant <u>Code Nos : 3/7 &amp; 4/7</u>	TWO	Written test followed by interview for shortlisted candidates	M.Sc [Physics] or B.Tech/M.Tech in Electrical/Electronics Engineering or Computer Science Engineering with interest in particle physics.	<b>Rs. 16,000/- p.m. + HRA @ 30% on Consolidated Salary</b>
4	Administrative Project	Project Assistant [House Keeping] <u>Code No: 5/7</u>	ONE	Written test followed by interview for shortlisted candidates	Three year Degree (or) Diploma course in Hotel Management & Catering Technology from a reputed college / institution with minimum of 55% marks [after plus two]. Atleast 5 years in the field of House Keeping management with familiarity in computers, customer care, cleaning of various surfaces with good communication skills.	<b>Rs. 15,000/- p.m. + HRA @ 30% on Consolidated Salary</b>
5	Administrative Project	Technical Assistant [Civil] <u>Code No: 6/7</u>	ONE	Written test followed by interview for shortlisted candidates	Diploma in Civil Engineering from a reputed college / institution with minimum of 55% marks. (3 years after SSC) approved by AICTE, New Delhi. Atleast 5 years experience in construction / maintenance of residential / commercial multistoried building, water supply and drainage systems including good knowledge of preparation of estimates and handling of contracts. He/she needs to assist the Civil Engineer in his/her day to day works.	<b>Rs. 15,000/- p.m. + HRA @ 30% on Consolidated Salary</b>
6	Administrative Project	Technical Assistant [Electrical] <u>Code No: 7/7</u>	ONE	Written test followed by interview for shortlisted candidates	Diploma / Licentiate in Electrical Engineering with minimum of 55% marks from a reputed college / institution (3 years after SSC) approved by AICTE, New Delhi. Atleast 5 years experience with Electrical Supervisor Competency Certificate (‘C’ Licence Holder) involved with following electrical field of 11 KV / 433V Electrical sub-station, 250 KVA and 62.5 KVA DG Sets and its automation, 680 Kg capacity electrical lifts, operation and maintenance of various ductable A/c Systems, Cooling Towers, networking, UPS and telecommunication system etc. He/she needs to assist the Electrical Engineer in his/her day to day works.	<b>Rs. 15,000/- p.m. + HRA @ 30% on Consolidated Salary</b>

## **SPECIFIC REQUIREMENTS FOR EACH POSITION:**

### **POSITION CODE NO. 1/7:**

Brief summary of the project: Computer Modeling of Biological Systems. The Project will focus on investigating how waves of activity occur in different biological systems [ranging from spiral waves and chaos in the electrical activity of heart muscle during life-threatening episodes of cardiac arrhythmia to waves of epidemic spreading seen during the propagation of different kinds of diseases over a geographical region].

### **POSITION CODE NO.2/7:**

The Project will focus on investigating the distribution of fluctuations of difference economic variables [such as stock price, commodity price, exchange rates, interest rates, etc.] in time and their cross-correlations with each other. While the characterized distributions will be used to motivate detailed models of economic & financial transactions, the cross-correlations will be used for reconstructing networks of interactions between important economic variables that will give us important insights on how markets respond to various signals.

### **POSITION CODE NO.3/7 & 4/7:**

The position involves developing programming codes for problems related to simulations/calculations in high energy physics. Persons with some interest and background in high energy physics and with expertise in programming languages, C++, C (Essential) and Fortran [desirable].

### **POSITION CODE NO.5/7:**

To extract and manage the housekeeping works of Institute Buildings, IMSc Staff Quarters and Off-Campus accommodation through the housekeeping cleaners on contract. Maintenance and issue of room keys and towels. Upkeep of the Institute Building and Quarters by following periodical cleaning of premises. To manage registers and monitor supplies of housekeeping materials. Maintenance of duty rosters and allocation of duties to cleaners from time to time.

### **POSITION CODE NO.6/7 & 7/7**

As shown in the above table.

**Interested candidates are requested to send their applications only through unique e-mail id as per details given below and mentioning the position details in the Subject e-mail as “Application for the Position of .....Code No.....” with a brief e-mail content besides attaching their latest resume by 1700 hrs on July 19, 2013 [FRIDAY]:**

- Position Code No1/7 = [pcomplex@imsc.res.in](mailto:pcomplex@imsc.res.in) for the position of Project Assistant at Sl. NO:1  
Position Code No2/7 = [pdata@imsc.res.in](mailto:pdata@imsc.res.in) for the position of Project Assistant at Sl.No.2  
Position Code No3/7 & 4/7 = [phep@imsc.res.in](mailto:phep@imsc.res.in) for the positions of Project Assistant at Sl.No.3  
Position Code No. 5/7 = [phk@imsc.res.in](mailto:phk@imsc.res.in) for the position of Project Assistant [House Keeping] at Sl.No.4  
Position Code No.6/7 = [tcivil@imsc.res.in](mailto:tcivil@imsc.res.in) for the position of Technical Assistant [Civil] at Sl.No.5  
Position Code No.7/7 = [telec@imsc.res.in](mailto:telec@imsc.res.in) for the position of Technical Assistant [Electrical] at Sl.No.6.

The Candidates are requested to note the following:

Sl. No	Positions and Code No.	Mode of Selection	Date & Time of report	Venue
1	Project Assistant Code Nos: 1/7, 2/7	Written Test and Interview	1. Written Test: <b>29.7.2013</b> - 0930 hrs 2. Interview: <b>29.07.2013.</b> - 1400 hrs	1. <b>Written Test:</b> <b>Ramanujan Auditorium, IMSc</b> 2. <b>Interview:</b> <b>3<sup>rd</sup> floor Lounge</b> - New Institute Bldg.
2	Project Assistant Code Nos: 3/7 & 4/7	Written Test and Interview	1. Written Test: <b>12.08.13</b> - 0930 hrs 2. Interview: <b>12.08.13</b> - 1400 hrs	1. <b>Written Test:</b> <b>Ramanujan Auditorium, IMSc</b> 2. <b>Interview:</b> <b>3<sup>rd</sup> floor Lounge</b> - New Institute Bldg.
3	Project Assistant [House Keeping] – Code No.5/7	Written Test and Interview	<b>Date of Written Test followed by Interview on the same day will be announced by us separately on Careers page of our website between 8<sup>th</sup> July and 12<sup>th</sup> July 2013 positively. Please look for this without fail.</b>	1. <b>Written Test:</b> <b>Chandrasekhar Hall</b> 1 <sup>st</sup> Floor, IMSc Main Bldg. 2. <b>Interview:</b> <b>3<sup>rd</sup> floor Lounge</b> - New Institute Building

4	Technical Assistant [Civil] : Code No.6/7	Written Test and Interview	- do -	1. <b>Written Test:</b> <b>Chandrasekhar Hall</b> 1 <sup>st</sup> Floor, IMSc Main Bldg. 2. <b>Interview:</b> <b>3<sup>rd</sup> floor Lounge</b> - New Institute Building
3	Technical Assistant [Electrical]: Code No.7/7	Written Test and Interview	- do -	1. <b>Written Test:</b> <b>Chandrasekhar Hall</b> 1 <sup>st</sup> Floor, IMSc Main Bldg. 2. <b>Interview:</b> <b>3<sup>rd</sup> floor Lounge</b> - New Institute Building

1. **No separate letter/confirmation requesting the candidates to attend for Written Test / Interview will be sent by this Institute in response to those mails through which the candidates have expressed their interest on or before 1700 hrs on July 19, 2013.**
2. ***The candidates submitting e-mails for the positions of “Project Assistant [House Keeping], Technical Assistant [Civil] & Technical Assistant [Electrical] are requested to look for date of written test followed by interview on the careers page of our website between 8<sup>th</sup> July and 12<sup>th</sup> July 2013.***
3. All those candidates who have applied for the position of "Project Assistant" & “Technical Assistant” are requested to report sharp as per the date, time and venue mentioned above [In case of positions at Code No.5/7, 6/7 & 7/7 the dates for written test will be announced separately by us on careers page of our website between July 8-12, 2013] with one copy of email & resume already submitted to us before 19.7.13 with photo pasted on it , all original certificates and one set of copies of all certificates as to proof of age, educational qualifications and experience.
4. The duration of the written test tentatively for about one and half hour from 1000 hrs to 1130 hrs.
5. The list of successful candidates of the written test will be displayed on the notice board at about 1300 hrs at the test venue on the same day. Only those candidates who clear the written test are required to appear for Interview which commences at about 1400 hrs on the same day.

**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. 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.
2. Only outstation candidates belonging to SC/ST appearing for the written test and selected for interview 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 from the station of residence/work place to Chennai on production of tickets.
3. Please visit Careers Page of our website [www.imsc.res.in](http://www.imsc.res.in) for further information and how to reach our Institute.
4. **The e-mails conveying the confirmation / interest / resume received beyond 1700 hrs of July 19, 2013 will not be considered under any circumstances.**

**Sd/-  
REGISTRAR**