

## **Applications invited for various positions in the National Supercomputing Mission (NSM) - Urban Project**

The Interdisciplinary Centre for Water Research (ICWaR) of IISc Bangalore invites application for various positions in the project titled: “**Urban Modelling: Development of Multi-sectorial Simulation Lab and Science Based Decision Support Framework to Address Urban Environment Issues**” an application project under “**National Supercomputing Mission (NSM): Building Capacity & Capability**”.

### **Positions available:**

Research Associates (RA- I, II, III, SRF, JRF)

### **Project Description:**

The project focuses on developing an urban model to capture the urban representation of micro-scale city environmental conditions, with an aim to improve the urban weather forecast, atmospheric dispersion & air quality, hydrology forecast, disaster management, daily operations, and policy development. The scope of ICWaR in this project deals with modelling high-intensity precipitation, urban floods, hydrologic modelling, numerical methods and CFD, in the context of high-resolution urban terrain data available now.

### **Preferred Experience of the Candidates:**

The candidate should have a strong academic background and preferably be proficient in Numerical Modelling, Hydrological/Meteorological modelling and CFD. Expertise in parallel computing is desirable.

The essential and desirable qualifications are mentioned in the **Appendix** attached. The positions are temporary and on a contract basis.

### **Salary:**

The candidate will be paid fellowship as per DST norms.

(Please see the **Annexure** for minimum qualifications and permissible emoluments)

### **Deadline for applications:**

10<sup>th</sup> March 2020

Candidates with suitable academic qualifications and an aptitude for research are welcome to apply. Interested candidates may kindly email their latest resume to:

Prof. P. P. Mujumdar

Chairman, ICWaR

IISc Bangalore.

Email: [pradeep@iisc.ac.in](mailto:pradeep@iisc.ac.in),

with a copy to Ms Anusree K Anju, email id: [anusreeanju@IISc.ac.in](mailto:anusreeanju@IISc.ac.in)

Please mark the e-mail subject as “Application for Project Position in the NSM Project”.

### Appendix:

| Position                                  | Essential Qualification   | Desirable Experience   |
|---|---|--|
| Post-Doctoral:<br>RA I<br>RA II<br>RA III | PhD with specialisation in the relevant areas<br>PhD + 1-year experience<br>PhD + 2 years’ experience   | Experience in<br>CFD/Hydrological<br>modelling/Meteorological<br>Modelling/Numerical<br>Modelling/High-<br>Performance Computing |
| JRF                                       | Postgraduate Degree in Basic Science OR<br>Graduate Degree in Professional Course<br>selected through a process described through<br>any one of the following:<br>a) National Eligibility tests – CSIR-UGC<br>NET including lectureship (Assistant<br>Professorship) and GATE<br>b) National level examinations conducted<br>by Central Government Departments<br>and their agencies and Institutions<br>such as DST, DBT, DAE, DOS,<br>DRDO, MHRD, ICAR, ICMR, IIT,<br>IISc, IISER, etc. | Experience in<br>CFD/Hydrological<br>modelling/Meteorological<br>Modelling/Numerical<br>Modelling/High-<br>Performance Computing |
| SRF                                       | The qualification prescribed for JRF with two<br>years of research experience   | Experience in<br>CFD/Hydrological<br>modelling/Meteorological<br>Modelling/Numerical<br>Modelling/High-<br>Performance Computing |

## Annexure

| Position       | Qualification   | Revised Emoluments |
|----------------|---|--------------------|
| RA-Provisional | Ph.D Thesis submitted   | 38000+HRA          |
| RA-I           | Ph.D  | 47000+HRA          |
| RA-II          | Ph.D+1 years experience   | 49000+ HRA         |
| RA-III         | Ph.D+2 years experience   | 54000+ HRA         |
| JRF            | <p>Post Graduate Degree in Basic Science OR Graduate Degree in Professional Course selected through a process described through any one of the following:</p> <p>a) National Eligibility Tests-CSIR-UGC NET including lectureship (Assistant Professorship) and GATE</p> <p>b) National level examinations conducted by Central Government Department s and their Agencies and Institutions such as DST, DBT, DAE, DOS, DRDO, MHRD, ICAR, ICMR, IIT, IISc, IISER etc.</p> | 31000+ HRA         |
| SRF            | Qualification prescribed for JRF with two years of research experience  | 35000+ HRA         |