



# INDIAN INSTITUTE OF TECHNOLOGY BOMBAY

Powai, Mumbai 400 076.

Advertisement No. G-1 / P(01) 11 - 12

## Want to contribute to cutting edge research?

Positions of Research Associate / Senior Research Fellow (RA / SRF), Sr. Research Engineer (RP), Sr. Project Engineer (SPE), Senior Research Fellow (SRF), Research Assistant (RA1), Junior Research Fellow (JRF) are available in the following projects.

Job Code	Project Name, Number of Posts, Eligibility & Consolidated Salary
<b>Chemistry</b>	
P(01-1)	<p><b>Protein-Carbohydrate Interactions by Experimental &amp; Computational Studies</b></p> <p><b>RA/SRF: (1 Post) Eligibility :</b> Ph.D. thesis submitted or defended in Inorganic chemistry with main emphasis on bioinorganic chemistry. Candidates having working experience in bioinorganic chemistry along with synthetic organic chemistry knowledge to carryout multistep synthesis and also hands on skills in the analytical and spectral techniques, viz., Fluorescence, Absorption, CD and Isothermal Titration Calorimetry (ITC) and having impressive publications based on their doctoral work will be preferred. <b>Salary :</b> Consolidated salary Rs.16000/- p.m.</p> <p><b>Job Profile :</b> Synthesis and characterization and interaction studies by experimental and computational studies. This is expected to lead to the understanding of protein-carbohydrate interactions using model molecular systems as a first step of entry into glycobiology.</p>
<b>Computer Science &amp; Engineering</b>	
P(01-2)	<p><b>Virtualized Cloud Computing Infrastructure</b></p> <p><b>RP: (1 Post) Eligibility :</b> PCB designer, with experience in ORCAD schematic, routing, layout, hyperlinks, PADS, Mentor suite. Diploma / degree with 5 years PCB experience. <b>Salary :</b> Consolidated salary Rs.35000/- p.m. + HRA.</p> <p><b>Job Profile :</b> Working on PCB and mechanicals of telecom products.</p>
P(01-3)	<p><b>Parallel Computing Research Prospects</b></p> <p><b>SPE: (1 Post) Eligibility :</b> M.Tech. in Computer Science and Engineering preferably from IITs. Should have a good knowledge of compiler internals, parallel computing, parallelization and vectorization, and architecture. Should have done some projects related to compilers and parallel computing. Must know C / C++ and Unix/Linux. Knowledge of GCC internals will be an added advantage. <b>Salary :</b> Consolidated salary Rs.20000/- p.m. + HRA.</p> <p><b>Job Profile :</b> Study of parallel computing, experimentation related to parallel computing, design and implementation of analysis and transformations for parallelization.</p>
<b>Earth Sciences</b>	
P(01-4)	<p><b>Preoperational Modeling of Buffer-Container Experiment related to the Geological Disposal of Radioactive Waste</b></p> <p><b>JRF: (1 Post) Eligibility :</b> M.Tech / M.Sc / B.Tech in Geology / Geophysics / Mining / Civil having experience in the field of rock science and rock engineering. Preference will be given to candidates having experience in numerical modelling. <b>Salary :</b> Consolidated salary Rs.12000/- p.m.</p> <p><b>SRF: (1 Post) Eligibility :</b> M.Tech / M.Sc / B.Tech in Geology / Geophysics / Mining / Civil having experience in the field of rock science and rock engineering. Preference will be given to candidates having experience in numerical modelling. <b>Salary :</b> Consolidated salary Rs.14000/- p.m.</p>
<b>Electrical Engineering</b>	
P(01-5)	<p><b>Implementation of Particle Filter Algorithm for Underwater Target Tracking</b></p> <p><b>RA1: (1 Post) Eligibility :</b> M.Tech or B.E in Electrical engineering with interest in signal processing and programming of Graphical Processing Units (GPUs from NVIDIA). Knowledge of statistical signal processing is helpful. Experience in programming using Matlab, C or C++ or Java is required. Preferable to have NVIDIA CUDA programming experience. <b>Salary :</b> Consolidated salary Rs.16000/- p.m.</p> <p><b>Job Profile :</b> Develop and Implement signal processing (target tracking) algorithms on GPUs. The main task would be related to the implementation aspects of the algorithm under development.</p>
<b>Mathematics</b>	
P(01-6)	<p><b>Robust Parameter Designs for Quality and Safety Critical Processes</b></p> <p><b>JRF: (1 Post) Eligibility :</b> M.Sc in Statistics / Biostatistics, with a good knowledge of R/SAS/Matlab. <b>Salary :</b> Consolidated salary Rs.14000/- p.m.</p> <p><b>Job Profile :</b> Research and programming using statistical softwares.</p>

The positions are temporary initially for a period of one year and tenable only for the duration of project. The selection committee may offer lower or higher designation and lower or higher salary depending upon the experience and performance of the candidate in the interview. Our Website <http://www.ircc.iitb.ac.in/IRCC-Webpage/JobOpportunities.jsp>

Last Date of the receipt of the application is 29th April, 2011.

Candidate should apply online at <http://www.ircc.iitb.ac.in/IRCC-Webpage/HRMSLoginPage.jsp>, if there is any problem applying online, send in the prescribed Application Form available at [http://www.ircc.iitb.ac.in/IRCC-Webpage/PDF/Application\\_online.pdf](http://www.ircc.iitb.ac.in/IRCC-Webpage/PDF/Application_online.pdf)

Candidates can apply for multiple positions with separate Application Form for each position. The postal address to send the application is as given below.

Senior Administrative Officer (R & D Office), IRCC Wing, SJMSOM Building, Indian Institute of Technology Bombay, Powai, Mumbai - 400 076, Phone: 022-2576 4076.