

## TRANSLATIONAL HEALTH SCIENCE AND TECHNOLOGY INSTITUTE

(An Autonomous Institute of the Department of Biotechnology, Govt. of India)

NCR Biotech Science Cluster, 3<sup>rd</sup> Milestone, Faridabad – Gurgaon Expressway, P.O. Box No. 04, Faridabad - 121001

### RECRUITMENT FOR RESEARCH AND TECHNICAL POSITIONS

#### **Recruitment Notice No. THS / RN /17/ 2016**

- a) Translational Health Science and Technology Institute (THSTI) is an autonomous Institute of the Department of Biotechnology, Ministry of Science and Technology, Govt. of India. The institute is an integral part of the interdisciplinary NCR Biotech Science Cluster located at Faridabad, and is designed as a dynamic, interactive organization with the mission to conduct innovative translational research and to develop research collaborations across disciplines and professions to translate concepts into tangible products to improve human health.
- b) THSTI has set up niche centres for research in areas relevant to planned translational work. They are: Vaccine and Infectious Disease Research Centre (VIDRC), Pediatric Biology Centre (PBC), Centre for Bio-design & Diagnostics (CBD), Drug Discovery Research Centre (DDRC), Centre for Human Microbial Ecology (CHME) and Policy Centre for Biomedical Research (PCBR). Clinical Development Services Agency (CDSA) and National Bio-design Alliance (NBA) are THSTI's extramural centres.
- c) This recruitment is to fill up the following project positions which is funded by a non governmental organisation.

#### **d) Qualification and Experience :**

S. No.	Name of the Position / No. of Positions / Maximum monthly consolidated emoluments/ Age Limit	Qualifications & Experience	Job Description
1.	<b>Research Chemist / Senior Research Chemist, Medicinal Chemistry</b> <b>Three positions</b> Rs.40,000/- to Rs. 66,000/- (depending on experience) 35 years	<ul style="list-style-type: none"> <li>M.Sc. in Organic Chemistry with at least two years industrial experience in synthetic chemistry lab (CRO or a Drug Discovery setup). Industrial experience is mandatory for this position.</li> <li>Candidate should have knowledge of commonly-used concepts, practices,</li> </ul>	<ul style="list-style-type: none"> <li>Performs a variety of laboratory procedures using established synthetic methods and techniques under general guidance of a senior scientist in the medicinal chemistry group.</li> <li>Conducts experiments and interprets routine spectroscopic data (e.g., NMR</li> </ul>

		<p>and procedures within medicinal and/or analytical chemistry.</p> <p><b>Desirable skills and experience</b></p> <p>Candidates having operational understanding of HPLC or NMR instrument will be preferred.</p>	<p>and LCMS).</p> <ul style="list-style-type: none"> <li>• Performing multi-step synthesis of the targets or intermediates</li> <li>• Purification of reaction products by appropriate techniques, e.g., via column chromatography and flash column chromatography</li> <li>• Characterization of compounds/intermediates using spectral techniques like UV, IR, NMR, and MS</li> <li>• Application of software such as ChemDraw, ISIS draw, Chem. Sketch, MS-Office for scientific purposes</li> <li>• Adherence to applicable safety and environmental codes and practices</li> <li>• Maintenance and protection of intellectual property (Research schemes, journals, analytical data, material/product safety data sheets etc).</li> </ul>
<p><b>2.</b></p>	<p><b>Medicinal Chemistry Associate</b>  <b>One position</b>  Rs. 40,000/- to Rs. 66,000/-  35 years</p>	<p>PhD. in Organic Chemistry from a reputed research lab is mandatory.</p> <p>Those who have submitted thesis and waiting for viva are also invited to apply for this position.</p> <p><b>Desirable skills and experience</b></p> <ul style="list-style-type: none"> <li>• Candidates having experience in synthetic chemistry lab in industrial setup (post/pre PhD degree) will be preferred.</li> <li>• Candidate having operational knowledge of analytical instruments such as HPLC and/or NMR will be preferred.</li> </ul>	<ul style="list-style-type: none"> <li>• Performs variety of synthetic chemistry procedures in lab using established synthetic methods and techniques without any formal guidance in the medicinal chemistry group.</li> <li>• Expected to provide day to day guidance to junior team members by designing synthetic schemes and routine trouble shooting.</li> <li>• Conducts experiments and interprets routine spectroscopic data (e.g., NMR and LCMS).</li> <li>• Designing synthetic schemes and their successful execution in lab.</li> </ul>

		<ul style="list-style-type: none"> <li>• Candidate should have knowledge of commonly-used concepts, practices, and procedures within medicinal and analytical chemistry.</li> </ul>	<ul style="list-style-type: none"> <li>• Performing multi-step synthesis of the targets or intermediates.</li> <li>• Purification of reaction products by appropriate techniques, e.g., via column chromatography and flash column chromatography.</li> <li>• Characterization of compounds /intermediates using spectral techniques like UV, IR, NMR, and MS</li> <li>• Compiling work reports and project reports.</li> <li>• Adherence to applicable safety and environmental codes and practices</li> <li>• Maintenance and protection of intellectual property (Research schemes, journals, analytical data, material/product safety data sheets etc).</li> <li>• Participates as appropriate in the human resources activities of the department (staffing, training, performance management, and employee development).</li> <li>• High quality scientific reading/writing.</li> </ul>
3.	<p><b>Research Application Developer</b>  <b>One position</b>  Rs.40,000/- to Rs. 50,000/-  (dependent on experience)  35 years</p>	<ul style="list-style-type: none"> <li>• Master's degree in IT/Bioinformatics/Computer Science with at least 3 years research experience</li> <li>• Demonstrated experience in software development and maintenance.</li> <li>• Proficient in Web 2.0 technologies like HTML 5, CSS 3, JavaScript.</li> <li>• Database server development with LAMP/WAMP servers.</li> <li>• Mandatory 2 years' experience in at least two languages from Java, Perl, Python, R.</li> </ul>	<ul style="list-style-type: none"> <li>• Candidate will be responsible for developing and maintaining applications for proteomics mass spectrometry and bioinformatics, assist researchers in daily code development and maintenance, maintaining SVN repositories, developing tools and software as per researchers' requirement and troubleshooting in technical aspects of their research,</li> </ul>

		<p><b>Desirable skills and experience</b></p> <ul style="list-style-type: none"> <li>• Candidate having operational knowledge of proteomics and bioinformatics will be preferred.</li> <li>• Scripting in Java, Perl, Python. R. Perl/Tk, .NET framework</li> <li>• Data visualization with D3 and other JavaScript libraries, MySQL, SQLite</li> <li>• Web development and Rich Internet Application (RIA) development</li> <li>• Database driven webserver development</li> <li>• Ability to install, configure and customize CMS frameworks.</li> <li>• Bioinformatics and proteomics mass spectrometry knowledge</li> <li>• Knowledge of using biological databases and tools.</li> </ul>	<p>development of GUIs and visualization tools based on popular web technologies, develop web servers and database driven websites, development and maintenance of content management systems and GUIs.</p> <ul style="list-style-type: none"> <li>• Development, betterment and extension of tools, plugin developments on existing tools, pipeline development and maintenance of tools will be the primary responsibilities of the selected candidate.</li> </ul>
4	<p><b>Senior Cell Technologist</b>  <b>One position</b>  Upto Rs.90,000/-  50 years</p>	<p>PhD degree in area of life sciences with a minimum of 8 years of post-PhD experience</p> <p><b>Or</b></p> <p>Master's degree in an area of Life Science with minimum of 15 years cumulative experience of working in a reputed laboratory/Institution.</p> <p>A high level of expertise in culturing and handling diverse cell types is a must as also is expertise in the basic techniques of cell and molecular biology.</p> <p>Other essential requirements include proven expertise in the following techniques:</p> <ul style="list-style-type: none"> <li>• Histopathology and Immuno-histochemical</li> </ul>	<p>The selected candidate will work in a team to develop high-content screening assays.</p>

		<p>techniques</p> <ul style="list-style-type: none"> <li>• Preparation of monoclonal antibodies</li> <li>• Cell transformation and transfections with siRNA/shRNA</li> <li>• Preparation of samples for proteomics analysis bt mass spectrometry</li> <li>• Flow cytometry and cell sorting</li> <li>• Confocal microscopy</li> <li>• PCR and DNA sequencing</li> <li>• Handling of mice and generation of polyclonal antibodies.</li> <li>• Two-dimensional gel electrophoresis, and western blot.</li> </ul> <p><b>Desirable skills and experience:</b></p> <ul style="list-style-type: none"> <li>• Knowledge of mass spectrometry, and high-content screening assays/platforms.</li> </ul>	
5	<p><b>Senior Research Fellow</b>  <b>One position</b>  Upto Rs. 30,000/-  35 years</p>	<p>M.Sc/ M. Tech in the area of Life Sciences with minimum one year experience in good lab/institute.</p> <p>A high level of expertise in culturing and handling diverse cell types is a must as also is expertise in the basic techniques of cell and molecular biology including apoptosis assay and transfections.</p> <p><b>Desirable skills and experience</b></p> <ul style="list-style-type: none"> <li>• Experience in cloning, protein expression, protein purification is desirable</li> <li>• Knowledge of flow cytometer and confocal microscopy</li> <li>• Excellent Oral and Written communication</li> </ul>	<p>The selected candidate will work on the ongoing DDRC Program where the candidate will be responsible for maintaining the cardiomyocyte cell culture, siRNA transfections, apoptosis assay routinely.</p> <p>Based on the project requirement, candidate will be responsible to do other cell and molecular biology experiments.</p>

6	<b>Lab Assistant</b> <b>Two positions</b> Upto Rs. 15,000/- 30 years	Standard 12 <sup>th</sup>  <b>Desirable:</b> Candidate having educational background in science will be preferred.	The selected candidate will take care of lab ware and glass ware. This includes washing, cleaning of working hoods and labware/glassware. He is expected to support scientific staff in preparing/re-filling of routine shelf reagents and solvents; proper storage and inventory of lab chemicals etc.
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e) Interested candidates fulfilling the criteria as mentioned in paragraph (d), may walk-in for interview/written test as per the schedule mentioned below:

Name of Post	Date and Reporting time for walk-in-interview	Venue
<b>Research Chemist / Senior Research Chemist, Medicinal Chemistry</b>	<b>23<sup>rd</sup> May 2016 (Monday)</b> <b>(9.30 am to 10.30 am)</b>	THSTI, NCR Biotech Science Cluster, 3 <sup>rd</sup> Milestone, Faridabad – Gurgaon Expressway, Faridabad - 121001
<b>Medicinal Chemistry Associate</b>		
<b>Research Application Developer</b>		
<b>Senior Cell Technologist</b>		
<b>Senior Research Fellow</b>		

Name of Post	Date and Reporting time for walk-in-written test/skill test	Venue
<b>Lab Assistant</b>	<b>24<sup>th</sup> May 2016 (Tuesday)</b> <b>(9.30 am to 10.30 am)</b>	THSTI, NCR Biotech Science Cluster, 3 <sup>rd</sup> Milestone, Faridabad – Gurgaon Expressway, Faridabad - 121001

**NOTE: The candidates must bring their latest resume, one set of photocopy of documents in support of their educational qualification and experience along with originals and a valid ID card for verification. Candidates coming after the time slot mentioned will not be entertained.**

## **GENERAL TERMS & CONDITIONS:**

1. Appointment will be made on contract initially for a period of one year, which may be extended for a further period on year to year basis subject to satisfactory performance, with an initial probation period of six months that may be extended at the discretion of the competent authority.
2. All educational, professional and technical qualification should be from a recognized Board/University.
3. The experience requirement specified shall be experience acquired after obtaining the minimum educational qualifications required for the post.
4. Persons working in Govt. / PSUs / autonomous bodies should apply through proper channel or produce a relevant 'No Objection Certificate' at the time of Interview/written test.
5. The age limit, qualification, experience and other requirements may be relaxed at the discretion of the competent authority, in case of candidates who are otherwise suitable. In case candidates are not found suitable for the posts notified, they can be offered lower post / lower emoluments on the recommendation of the Selection Committee.
6. Number of positions filled will be as per the need and availability of the suitable candidates.
7. Number of vacancies may vary based on the requirement at the time of interview/written test.
8. Outstation SC/ST/ PwD candidates called for the interview/written test will be paid to & from second class railway fare, as per Govt. of India rules on production of the proof of the same.
9. Reservation/ Relaxation rules will apply as per Govt. of India provisions.
10. All results will be published on our website and all communications will be only through email.
11. Canvassing in any form will be a disqualification.