

**JAMIA MILLIA ISLAMIA**

(A Central University by an Act of Parliament)

**जामिया मिल्लिया इस्लामिया**  
(संसदीय अधिनियमानुसार केन्द्रीय विश्वविद्यालय)

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**Centre for Interdisciplinary Research in Basic Sciences (CIRBSc)**  
**मूलभूत विज्ञान में अंतर्विषयक अनुसंधान केंद्र**

14.06.2017

**Requirement of Junior Research Fellow**

Applications are invited for the post of one Junior Research Fellow (@ Rs.25000/pm + HRA) in a SERB sponsored research project entitled "*Study the effect of ionic liquids (ILs) on the activity of antimicrobial (AMPs) peptides: Application of ILs-AMPs non-covalent conjugates*" at Centre for Interdisciplinary Research in Basic Sciences, Jamia Millia Islamia, New Delhi-110025 under the guidance of Dr. Rajan Patel (Principal Investigator).

**Summary of the Project:**

Efforts have been made in last few years to identify the compounds which can enhance the antimicrobial activity of AMPs. It was reported that, AMPs when combined with antibiotics or organometallic compounds increase the antibacterial activity of AMPs. Therefore, in this project, we will design and synthesize new ILs and prepare IL-AMPs non-covalent conjugates with improved antibacterial activity. The antibacterial activity of IL-AMPs non-covalent conjugates against a range of various bacteria, (Gram-positive (Bacillus subtilis) and Gram negative (Escherichia coli) will be done.

**Eligibility:** M.Sc. in Chemistry/ Biochemistry with at least 55% aggregate and NET/ GATE qualified.

**Desirable:** Candidates having research experience (Synthesis and antibacterial activity) are preferred.

Application with updated CV including contact number and email ID and references should reach the office of the Director, Centre for Interdisciplinary Research in Basic Sciences, Jamia Millia Islamia, New Delhi-110025, by **30-06-2017**, before 5:30 pm. The applicants may also send their CV to [rpatel@jmi.ac.in](mailto:rpatel@jmi.ac.in).

Interview date will be communicated to the short listed candidates via email. For any further information you may be contacted at 8860634100.

Dr. Rajan Patel  
Assistant Professor/ Principal Investigator  
Centre for Interdisciplinary Research in Basic Sciences,  
Jamia Miliia Islamia, New Delhi-110025.