



BITS Pilani

Pilani | Dubai | Goa | Hyderabad | Mumbai
Research & Innovation

Broad Topic: Electrospun nanofiber for nerve regeneration

Pilani Campus | Deadline: 15 May 2026 |

Joining: At the earliest

Date: 9 May, 2026

Applications are invited for **ONE** position of **Research Fellow*** on project, “**Growth factor-loaded nanoparticle impregnated composite polymeric electrospun nanofiber scaffolds for enhancing neural tissue regeneration and related DFT studies for optimizing compositions of matrix**” under the supervision of **Prof. Aniruddha Roy**, Dept. of Pharmacy, Pilani Campus

* The selected candidate is encouraged to join the PhD Program of BITS Pilani. Interested candidates check the eligibility criteria and qualification process of the PhD program of BITS Pilani <https://admissions.bits-pilani.ac.in/PhD/phd.html>

| Scope of work | Essential Qualification | Desirable Qualification |
|--|---|---|
| JRF will carry out the development of growth factor-loaded nanoparticles and electrospun composite nanofiber scaffolds for neural tissue regeneration. He/She will also characterize the physicochemical, electrical, and biological properties of the developed scaffold systems. Additionally, he/she will examine the in vitro and in vivo regenerative efficacy of the scaffolds using neuronal models. He/she will also compare the results with existing models and will propose new models based on findings. He/she will also write research papers in indexed journals, conferences, and patents. | M.Sc./M.Pharm./M.Tech. (Candidates with GPAT, GATE, or NET qualifications are preferred). - Experience in electrospinning, cell culture, and animal handling. | Experience in developing electrospun biomaterials for nerve regeneration. - Familiarity with DFT calculations. - Experience in creating spinal cord injury rat/mouse models, as well as proficiency in Western blotting and flow cytometry. |

Fellowship: ₹37,000 - ₹42,000 per month (based on the year of PhD and performance)

Duration: As per BITS Pilani norms (<http://www.bitsadmission.com/phmain.aspx>)

Place of work: BITS Pilani, Pilani Campus, Rajasthan 333031

Application process: Please apply with **CV and Cover letter** (showing alignment and justification with the roles/responsibilities/requirements) to aniruddha.roy@pilani.bits-pilani.ac.in with subject “**CDRF Ph. D Application**” before **15 May 2026**

Preliminary shortlisting will be based on resume and telephonic/audio-visual interview within a week of last date of application. For final interview, the candidate will be informed through e-mail/ Phone for interview. No TA/DA will be provided in case of personal interview. For more details, please contact:

Prof. Aniruddha Roy
Department of Pharmacy
BITS Pilani, Pilani Campus, Rajasthan
Email: aniruddha.roy@pilani.bits-pilani.ac.in