

No. SRICC/RJP-PDF/2026-27/

Date : July 30, 2026

### ADVERTISEMENT FOR RAJA JWALA PRASAD POST DOCTORAL FELLOWSHIP

Banaras Hindu University, recognized by the Ministry of Education as an Institution of Eminence, is inviting applications from eligible candidates for **Raja Jwala Prasad Post-Doctoral Fellowship** of one-year duration. Besides the sophisticated equipment available in various laboratories of the Departments, the University has a Central Discovery Centre where cutting edge research equipment like Fluorescence Activated Cell Sorter (FACS), Flow Cytometer (FCM), Gel Doc Chemiluminiscent, High-Resolution FE-SEM (with EDS and EBSD) are available. Under DBT supported SATHI High Resolution Accurate Mass Spectrometry System, Laser Ablation (Femto- Second) Combustion Gas Chromatography, High Resolution – Isotope Ratio Mass Spectrometry, Laser Scanning Super Resolution Microscope System, Circular Dichroism Spectrophotometer, Photoacoustic Imaging Platform and High Resolution NMR 600 MHz are also available.

Name of the mentor, Department and Faculty in which the RJP-PDF positions are available is given below :

| Post Code | Name of the Mentor/<br>Department/ Faculty                    | Essential & Desirable qualifications                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
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| RJP-051   | Dr. Neelam Atri<br>D/o. Botany<br>Mahila Mahavidyalaya        | E.Q.: PhD in Botany/Bioinformatics/<br>Biotechnology/Biochemistry.<br>D.Q. : Expertise required in field of<br>Bioinformatics OR Microbiology specially<br>in field of cyanobacteria of algae.                                                                                                                                                                                                                                                                                        |
| RJP-052   | Dr. Jay Prakash Maurya<br>D/o. Botany<br>Institute of Science | E.Q.: PhD in Plant Biology/Botany / Plant<br>Science / Plant Biotechnology / Plant<br>Molecular Biology / Genetics/Life Sciences<br>or a closely related discipline.<br>D.Q.: Experience of having worked with<br>plants (Arabidopsis, potato or tomato),<br>Plant tissue culture, Plant transformation<br>and molecular biology techniques (such as<br>PCR, gel electrophoresis, genetic analysis,<br>genotyping, phenotyping, protein-protein<br>and protein-DNA interactions etc.) |

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| RJP-053 | Dr. Deepak Kumar<br>D/o. Botany<br>Institute of Science                                             | E.Q.: PhD in Botany/Life Sciences/Biotechnology/Plant Science/Bioscience/Plant Biotechnology/Plant Molecular Biology/Biochemistry or a closely related discipline.<br>D.Q.: Experience in plant tissue culture, Plant transformation, molecular biology (Gene cloning, protein-protein/DNA interactions, protein expressions and purification, Co-IP and CRISPR/Cas system) Microscopy, Data analysis and Bioinformatics. |
| RJP-054 | Dr. Ankush Gupta<br>D/o. Biochemistry<br>Institute of Science                                       | E.Q.: PhD in Biochemistry/Biotechnology/Microbiology/Life Sciences/Zoology.<br>D.Q.: Preference will be given to the candidates having research experience in the field of Molecular Biology, recombinant protein expression/purification/characterization, bacteriophage isolation their characterization with evidence of original research publications in the relevant field.                                         |
| RJP-055 | Dr. Rakesh Pandey<br>D/o. Bioinformatics<br>Mahila Mahavidyalaya                                    | E.Q.: PhD in Life Science/Bioinformatics/Zoology / Biomedical Science/Biotechnology or any relevant field.<br>D.Q.: Expertise in Cancer Biology specially Leukaemia, Mammalian cell culture (Preferably suspension culture) and Related molecular biology techniques including Gene Knockdown/knockout experiments, Time/Dose assays for prospective drugs, Cell viability/Cytotoxicity assays.                           |
| RJP-056 | Dr. Vibhav Gautam<br>Centre of Experimental<br>Medicine and Surgery<br>Institute of Medical Science | E.Q.: Candidates must have a PhD Degree in Biotechnology/Cell Biology/Applied Microbiology/Life Sciences/ Zoology/ Botany/Bioscience/ Molecular Biology/Biochemistry/Bioinformatics/Forensic Science.<br>D.Q. : Candidates with expertise in Cancer Biology, mammalian cell culture and cell line maintenance, molecular and biochemical biology techniques, and cell-                                                    |

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|         |                                                                       | based functional assays, including cell viability assays, cloning of mammalian cancer cell lines, development of drug-resistant cancer cell lines, handling experimental animal models, and conducting preclinical studies will be preferred.                                                                                                                                                                                                                                                           |
| RJP-057 | Dr. Kanak Roy<br>D/o. Chemistry<br>Institute of Science               | E.Q.: PhD in Chemical Sciences<br>D.Q.: Experience in heterogeneous catalysis, CO <sub>2</sub> hydrogenation, catalytic reactors.                                                                                                                                                                                                                                                                                                                                                                       |
| RJP-058 | Dr. Kirpa Ram<br>D/o. of Chemistry<br>Institute of Science            | E.Q.: PhD Degree (preferably awarded) in Atmospheric/Environmental Science, Environmental Science & Technology, Chemistry, Environmental Technology, Forensic Science, Meteorology, Civil/Environmental Engineering, Atmospheric Sciences, Geochemistry, Environmental Chemistry, Green chemistry or in any allied science discipline<br>D.Q.: Experience in air pollution monitoring, instrumentation, data handling and analysis, Environmental modeling (including PCA, EPA, WRF etc) are desirable. |
| RJP-059 | Dr. Satpal Singh Badsara<br>D/o. of Chemistry<br>Institute of Science | EQ.: PhD in Organic Chemistry<br>D.Q.: Experience in Electro-catalysis/Photo-Catalysis/Transition Metal-Catalysis for Organic Synthesis.                                                                                                                                                                                                                                                                                                                                                                |
| RJP-060 | Dr. Divya Prakash<br>D/o. Geology<br>Institute of Science             | E.Q.: PhD in (Geology/Applied Geology/Earth Science related areas).<br>D.Q.: The applicant having prior experience in the field of Metamorphic Petrology or related field will be preferred.                                                                                                                                                                                                                                                                                                            |
| RJP-061 | Dr. Nafisa Begam<br>D/o. Physics<br>Institute of Science              | E.Q.: PhD degree in Physics<br>D.Q. : Experience in experimental soft condensed matter Physics, Experience in Simulations, Preferred with Programming skills                                                                                                                                                                                                                                                                                                                                            |

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| RJP-062 | Dr. Vikas Kumar<br>D/o. of Physics<br>Institute of Science         | E.Q.: PhD in Theoretical Nuclear Physics or Experimental Nuclear Physics.<br>D.Q: Strong background in Theoretical Nuclear Physics, Nuclear Shell Model Calculations and Allowed and Forbidden Beta Decay studies. Experience with computational nuclear physics and scientific programming will be an added advantage.                                                                                                                                                                                                                                                                                                                                                             |
| RJP-063 | Dr. Amit Pathak<br>D/o. of Physics<br>Institute of Science         | E.Q.: PhD in Physics<br>D.Q.: Experience of using Quantum Chemistry Software, Experience of research in Astrochemistry, Programming skills and knowledge of Machine Learning                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| RJP-064 | Dr. Sanjay Kr. Srivastava<br>D/o. Physics<br>Institute of Sciences | E.Q.: PhD. in Physics.<br>D.Q.: 1. Expertise in synthesis of Quantum Dots through facile techniques (hydrothermal and sol-gel method and 2D-Nanomaterials through CVD techniques)<br>2. Expertise in characterization of nanomaterials through XRD, SEM, TEM, PL, UV-Vis, Raman Spectroscopy, AFM etc.<br>3. Thin-Film Deposition: Proficiency in solution-processing techniques like spin-coating, drop-casting to create uniform QD layers. Thin film deposition through thermal vapor deposition/Electron beam deposition.<br>4. Fabrication of photodetectors based on QDs and 2D nanomaterials and their measurements through parameter analyser or source measure unit (SMU). |
| RJP-065 | Dr. Rajneesh Kumar<br>D/o. Physics<br>Institute of Science         | E.Q.: PhD in Physics.<br>D.Q.: Experimental and / or Computational skill in plasma physics, space physics, materials for extreme environments, atomic physics.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

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| RJP-066 | Dr. Swarn Lata Singh<br>D/o. Physics<br>Mahila Mahavidyalaya                     | E.Q.: PhD in Physics<br>D.Q.: Prior experience of using MD simulation on soft matter, good at computational/numerical and analytical methods.                                                                                                                                                                                                                                                                                                          |
| RJP-067 | Dr. Seema Rani<br>D/o. Geography<br>Institute of Science                         | E.Q.: PhD in a Geography/Environmental Sciences/Geoinformatics/Climate Science/Atmospheric Science.<br>D.Q.: Experience in GNSS meteorology, atmospheric water vapour studies, climate and hydrological data analysis, GIS and remote sensing, programming (Python/R/MATLAB etc.) statistical modelling, and handling of reanalysis and satellite datasets. Familiarity with machine learning and AI applications in atmospheric and climate sciences. |
| RJP-068 | Dr. Rajeev Pratap Singh<br>Instt. of Environment and Sustainable Development     | E.Q.: M.Sc. in Environmental Science/Botany/Plant Biotechnology with 55% marks along with Ph.D. degree in Environmental Science/Botany/Plant Biotechnology.<br>D.Q.: Candidates with appropriate research experience in the field plant-microbe interactions, proteomics, reverine ecosystem, plant ecotoxicological response, recycling of organic waste in agriculture.                                                                              |
| RJP-069 | Dr. Prashant Kr. Srivastava<br>Instt. of Environment and Sustainable Development | E.Q.: PhD degree in Agricultural Sciences/Geography/Environmental Science/Electronics/Computer Science/Environmental Science & Technology/Geoinformatics/Physics/ Civil Engineering.<br>D.Q.: Prior Research experience in remote sensing data handling.                                                                                                                                                                                               |
| RJP-070 | Dr. Virendra Kr. Mishra<br>Instt. of Environment and Sustainable Development     | E.Q.: PhD in Environmental Science/Chemistry/Statistics.<br>D.Q.: Having experience in water and waste water analysis/handling of large data sets.                                                                                                                                                                                                                                                                                                     |

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| RJP-071 | Dr. Jay Prakash Verma<br>D/o. DESD<br>IESD                               | E.Q.: PhD in (Life Science / Biotechnology/Microbiology/Environmental Science/Plant Science or any related field)<br>D.Q.: Research experience in the field of plant-microbe-soil interaction, phytomicrobiome, Soil Microbiology, sustainable agriculture, Bioinformatics, Molecular biology, Microbial screening and Metabolite extraction upscaling and its purifications will be preferred.   |
| RJP-072 | Dr. Ashish Pathak<br>D/o. Mathematics<br>Institute of Science            | E.Q.: Ph.D. degree in Mathematics, Experience in Harmonic Analysis, Microlocal Analysis, Integral Transforms and Wavelet Theory.<br>D.Q.: Experience in the study of wavefronts sets, distribution theory and partial differential equations, strong analytical, communication and scientific writing skills, Ability to contribute effectively to collaborative research projects.               |
| RJP-073 | Dr. Pradyot Prakash<br>D/o. Microbiology<br>Institute of Medical Science | E.Q.: MSc & PhD in Microbiology/Botany/Biotechnology/Zoology/Applied Microbiology.<br>D.Q.: Experience and publications in the fields of Bacteriology, Antimicrobial Resistance, Bacterial biofilm. Experience and publications in the fields of Bacteriology, Antimicrobial Resistance, Bacterial biofilm, drug interventions and hands on experience in proteomics and related molecular tools. |
| RJP-074 | Dr. Manoj Kumar<br>D/o. Economics<br>Faculty of Social Science           | E.Q.: PhD in Economics/ Geography /Statistics.<br>D.Q.: Demonstrated research experience in development-related issues, including health, poverty, nutrition, inequality, labour, and other social sector issues. Strong proficiency in statistical and econometric analysis using software such as STATA, R, Python, etc.                                                                        |

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|         |                                                                            | Proven hands-on experience in analysing large-scale national survey datasets, including NFHS, NSS, IHDS, LASI, PLFS, and similar databases. Evidence of high-quality research and publications utilising these datasets and analytical methods.                                                                                                         |
| RJP-075 | Dr. Manoj Pandey<br>D/o. Surgical Oncology<br>Institute of Medical Science | E.Q.: PhD Biochemistry/Biotechnology/Bioinformatics.<br>D.Q.: Wet lab experience of DNA/RNA isolation, human cancer tissue handling/human cancer research, PCR, section cutting staining and IHC.                                                                                                                                                       |
| RJP-076 | Dr. Arnab Banerjee<br>D/o. Zoology<br>Institute of Science                 | E.Q.: PhD in Zoology, Life Sciences, Biochemistry, Neuroscience and Animal Biotechnology.<br>D.Q.: Strong background in molecular biology, mammalian cell culture, basic endocrinology, reproductive biology and animal handling.                                                                                                                       |
| RJP-077 | Dr. Radha Chaube<br>D/o. Zoology<br>Institute of Science                   | E.Q.: PhD in Zoology/Life Sciences.<br>D.Q.: The candidate with prior hand on experience in the relevant area of Molecular Biology/Bioinformatics/Animal Handling relevant to Zoology fields will be preferred.                                                                                                                                         |
| RJP-078 | Dr. Devanjan Sinha<br>D/o. Zoology<br>Institute of Science                 | E.Q.: PhD in Life Sciences/Zoology/Biochemistry/Biotechnology or allied areas.<br>D.Q.: Candidates with experience in Drosophila genetics or mouse models, stem cells or tumour biology and metabolic research will be preferred.                                                                                                                       |
| RJP-079 | Dr. Sameer Gupta<br>D/o. Zoology<br>Institute of Science                   | E.Q.: PhD in Zoology/Biochemistry/Neuroscience with a background in Neuroendocrinology/Metabolism/Biochemistry.<br>D.Q.: Strong background in Molecular biology, Metabolism, Developmental Neurobiology and Basic endocrinology and Expertise in animal handling is a must. Candidate with expertise in neuron and astrocyte culture will be preferred. |

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| RJP-080 | Dr. Amaresh Kumar Singh<br>D/o. Zoology<br>Institute of Science                                          | E.Q.: PhD in Zoology/Biochemistry/<br>Animal Biotechnology/Biosciences/<br>Immunology/Developmental Biology.<br>D.Q.: Strong Background in Molecular<br>Biology, Immunology and immunological<br>assays, Cell culture (primary and cell-line)<br>and basic endocrinology. Candidate with<br>bone biology and immunology will be<br>preferred based on their expertise. |
| RJP-081 | Dr. Raghavendra Chaubey<br>Centre for Interdisciplinary<br>Mathematical Sciences<br>Institute of Science | E.Q.: PhD in Mathematics/Physics<br>D.Q.: Candidates must have research<br>experience in the field of Cosmology.                                                                                                                                                                                                                                                       |

Repeated Advertisement:-

Advertisement Notification No. SRICC/RJP-PDF/2025-26 dated August 1, 2025, is hereby re-advertised for the remaining period (9 months) due to the resignation of the last selected candidate.

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| RJP-019 | Dr. Royana Singh<br>D/o. Anatomy<br>Institute of Medical Science | E.Q.: PhD with First Class Post Graduate<br>Degree in Biotechnology/Biochemistry/<br>Bioinformatics/Zoology from a recognized<br>Institute/University.<br>D.Q.: Experience in handling advanced<br>molecular biology techniques and<br>laboratory instruments, including Next-<br>Generation Sequencing (NGS), CGH<br>Array, and Sanger sequencing, Experience<br>in bioinformatics, multi-omics data<br>analysis, molecular docking, molecular<br>dynamics (MD) simulation, virtual<br>screening, in silico drug discovery and<br>target prediction, structural bioinformatics,<br>protein-ligand interaction analysis,<br>scientific writing, and project report<br>preparation. |
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**Other conditions:**

- 1) Only those research scholars who have done their Ph.D. from Indian Universities/Institutes with NIRF ranking of up to 50 (overall or in respective areas) or those who have done Ph.D. abroad in top 500 world ranking Universities (Q.S. of T.H.E.) will be eligible. Research scholars who have done their research in Institution of National Importance are also eligible.
- 2) The candidates must have proven track record with published work of at least two papers in Q1 or Q2 journals or SCOPUS/ Web of Science listed journals.
- 3) The RJP-PDF will receive a consolidated fellowship of Rs. 60,000/- p.m. + HRA (Rs. 10,000/- p.m.) and a contingency of Rs. 50,000/- per year (on pro-rata basis).
- 4) The RJP-PDF will be valid for 12 months from the date of joining of the Fellow.
- 5) The fellows are expected to publish their work in Q1 or Q2 or SCOPUS/ Web of Science listed journals.
- 6) The fellow will carry the title of “Raja Jwala Prasad Post-Doctoral Fellow”.

Interested candidates are requested to submit their application in prescribed format along with supporting documents and to: The Professor Incharge, Sponsored Research & Industrial Consultancy Cell, Room No. F-10, Central Office Annex, Banaras Hindu University, Varanasi – 221005, Uttar Pradesh by August 21, 2026.

**Sd/-R.K. Mall**  
Professor In-charge  
Sponsored Research &  
Industrial Consultancy Cell  
Banaras Hindu University