

NISER Summer Internship Programme (NSIP) 2026

Exhaustive Faculty-wise Research Summary (As per Official Notification)

School of Biological Sciences (SBS)

- Dr. Abdur Rahaman – Characterization of protein involved in Membrane trafficking and Nuclear remodeling.
- Dr. Aniruddha Datta Roy – Character evolution and trait-dependent diversification in squamates.
- Dr. Asima Bhattacharyya – Isolation and study of extracellular vesicles from cancer cells.
- Prof. Chandan Goswami – Cell biology of TRP ion channels.
- Dr. Debasmita P. Alone – Molecular genetics and epigenetics of aging disorders: Neurodegeneration and Cancer.
- Dr. Rittik Deb – Evolution of signalling behaviour in Ensiferans due to classical and novel selection pressure.
- Dr. Harapriya Mohapatra – Investigating antimicrobial resistance in Gram negative bacteria.
- Dr. Manjusha Dixit – Cloning and characterization of FRG1-interacting gene in breast cancer.
- Dr. Pankaj V. Alone – Understanding mechanism of eukaryotic translation initiation.
- Dr. Subhasis Chattopadhyay – Cell mediated immune regulation in inflammation and immune suppression.
- Dr. Tridib Mahata – Cloning of ORF047 from Basel-86 phage into the pBAD33.1 expression Vector.

School of Chemical Sciences (SCS)

- Detailed faculty-wise research areas available at official webpage:
<https://www.niser.ac.in/people/fac/scs>

School of Computer Sciences (SCoS)

- Algorithm Design.
- Machine Learning.

- Detailed faculty research profiles available at: <https://www.niser.ac.in/people/fac/scos>

School of Earth & Planetary Sciences (SEPS)

- Dr. Rout's Group – Cosmochemistry and experimental planetary science; diffusion processes in metals within iron meteorites using modelling and experiments.
- Dr. Thangjam's Group – Planetary hyperspectral data processing, reflectance spectroscopy, radiative transfer modelling.
- Dr. Khanna's Group – Atmospheric physics, fluid dynamics, meteorological observations, regional climatology.
- Dr. Majumdar's Group – Exoplanet atmospheres & interiors; JWST and ALMA observations.
- Dr. Bhattacharya's Group – Earthquake seismology, laboratory friction experiments, inverse problems.
- Dr. Goyal's Group – Characterization of exoplanet atmospheres using modelling and HST/JWST observations.
- Dr. Chowdhury's Group – Thermodynamic and kinetic modelling of early Earth processes.
- Dr. Nikitha Susan Saji's Group – Geochemical investigations of terrigenous sediments.

School of Humanities & Social Sciences (SHSS)

- Economics – Energy Economics, Environmental Economics, Public Economics.
- English – All areas in English Literature.
- Psychology – Organisational Behaviour, Mental Health.
- Sociology – Public Policy and Governance (Education/Health/Livelihood), Human-wildlife conflict, Society-Science interface, Environment and Climate Change, Tourism system and social aspects of tourism.

School of Mathematical Sciences (SMS)

- Algebra, Algebraic Geometry, Algebraic Graph Theory.
- Cryptography.
- Differential Equations and Differential Geometry.
- Discrete Mathematics.
- Functional Analysis and Harmonic Analysis.
- Incidence Geometry.
- Number Theory and Probability Theory.

- Representation Theory.

School of Physical Sciences (SPS)

- Detailed faculty-wise research areas available at official webpage:
<https://www.niser.ac.in/people/fac/sps>

Centre for Medical and Radiation Physics (CMRP)

- Research activities in Radiation Physics and related applied domains.
- Faculty research profiles available at: <https://www.niser.ac.in/people/fac>

Important Note

This document consolidates all faculty-wise research themes explicitly mentioned in the official NSIP 2026 notification. Applicants are strongly advised to visit the official NISER faculty webpages for detailed and updated research profiles before applying.