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School of Physical Sciences Jawaharlal Nehru University New Delhi-110067

Summer Project @ SPS, 2018

Duration 1st June to 15th July, 2018

Last date for applying: 10th April, 2018

Overview:

- The **School of Physical Sciences (SPS)** is one of the leading departments of India in research and teaching in the fields of Physics, Chemistry and Mathematics. Since its inception in 1986, the faculty of SPS has made significant contributions to these subjects as well as interdisciplinary areas bordering them.
- The School offers **Ph.D.** programmes in Physical and Chemical Sciences and in Mathematics. In addition, there are **M.Sc.** programmes in Physics (since 1992) and Chemistry (since 2017), while one in Mathematics will start in near future.
- In **Physics**, the research emphasis is on Chemical Physics, Complex Fluids, Disordered Systems, Granular Materials, Non-equilibrium Statistical Mechanics, Materials Science, Magnetism, Superconductivity, Semiconductors, Polymers, Nano-materials and other aspects of Condensed Matter Physics. Moreover, Computational Physics, Mathematical Physics, Nonlinear Dynamics, Quantum Chaos, Statistical Nuclear Physics, Nonlinear and Quantum Optics, Neutrino Physics and String Theory are also active areas of research.
- The focus of research in **Chemistry** is on Inorganic, Organic and Physical Chemistry, in particular, on Supramolecular Chemistry, Biophysical Chemistry, Biomolecular Complexes, Synthetic Organic Chemistry, Organo-Metallics, Crystal Engineering, Ultrafast and Single Molecule Spectroscopy, and Biomolecular Dynamics.
- Research in **Mathematics** focuses primarily on Algebraic and Analytic Number Theory, Arithmetic Geometry, Elliptic Curves, Dynamical Systems, Probability Theory on Groups, Number Theory and Operator Algebras.
- Admission is through an All India Entrance Examination, and the application procedure begins in the month of September-October. Please keep checking <http://www.jnu.ac.in> for announcements.

Who can apply:

- B.Sc. Final or M.Sc. (Previous) Physics/ Chemistry/ Maths

How to apply:

- Submit your complete signed CV with details of marks obtained from Class-XII onward by e-mail to : summarprojectsp@gmail.com by 15 April 2018.

Intake:

- 10 Candidates

Note:

- No fellowship & no accommodation will be provided.
- Certificates will be distributed after completion of the project.

Available Research Areas for Summer Projects

1. Soft Matter, Nanosciences & Biophysics.
2. Experimental Condensed Matter Physics, Superconductivity, Multiferroics and Thermoelectric Materials.
3. Theoretical High Energy Physics.
4. Organic and organometallic synthesis, supramolecular chemistry.
5. Bio-inorganic Chemistry and Medicinal Chemistry
6. Doped Quantum Nanomaterials, Dots.
7. Linear Algebra, Topology, Functional Analysis, Group Theory.

Contact Details

Tel.: 011-26704782/26704784, E-mail: summarprojectsp@gmail.com

Website: <http://www.jnu.ac.in/SPS>