



Indian Academy of Sciences

C.V. Raman Avenue, P.B. No. 8005, Bangalore 560 080

Academy Initiative in University Science Education

Summer Research Fellowships for Students and Teachers 2005

The Science Education Panel of the Academy offers several two-month Summer Fellowships to enable students/teachers to work with Fellows of the Academy during 2005. Attached is a list of Fellows who are willing to accept students/teachers for work on joint short-term projects.

Proposals are invited from interested students and teachers for these Fellowships. The proposal should include a brief resume of the applicant (see format), a one-page description of the planned activity, the Fellow with whom the applicant would like to work (please give names of two or three Fellows in order of interest) and the tentative dates of the visit as convenient to the applicant. Student applicants should include a recommendation letter from a teacher (in the enclosed form) familiar with their work, in a sealed envelope.

Completed proposals should reach the Academy office (The Executive Secretary, Indian Academy of Sciences, C.V. Raman Avenue, Post Box No. 8005, Sadashivanagar P. O., Bangalore 560 080) by **31 January 2005**. Information of selection along with concurrence of the Fellow will be despatched by **early March, 2005**.

The selected students/teachers will be provided appropriate round trip train fare and an honorarium to meet the boarding and lodging expenses at the place of work.

31 October 2004

Professor N. Mukunda
Chairman, Science Education Panel

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The abbreviations that follow the name and address of the Fellows are explained below:

1. **S** — Willing to accept students (undergraduate/graduate/postgraduate).
2. **T** — Willing to accept teachers (doctoral/post-doctoral).
3. **AA** — Accommodation may be available to the student/teacher (subject to confirmation).
4. **ANA** — Accommodation not available, and has to be taken care of by the student/teacher concerned.
5. The entry in brackets after the Fellow's name indicates the field of specialization of the Fellow.

LIST OF FELLOWS

1. **Adhya, Dr Samit** (sp. Molecular Genetics of Parasites, Intracellular RNA trafficking and DNA Diagnostics), Scientist, Indian Institute of Chemical Biology, Kolkata 700 032.
S, ANA.
2. **Adimurthi, Prof.** (sp. Nonlinear Differential Equations), TIFR Centre, Indian Institute of Science Campus, Bangalore 560 012. (e-mail: aditi@math.tifrbng.res.in)
S, T, AA.
3. **Ahmad, Prof. Talat** (sp. Igneous Petrology, Geochemistry and Himalayan Geology), Department of Geology, University of Delhi, Delhi 110 007. (e-mail: tahmad001@yahoo.co.in)
S, T, AA.
4. **Amritkar, Prof. R.E.** (sp. Nonlinear Phenomena, Chaos and Statistical Physics), Theory Division, Physical Research Laboratory, Navrangpura, Ahmedabad 380 009.
(e-mail: amritkar@prl.ernet.in)
S, T, AA.
5. **Anand, Prof. G.V.** (sp. Nonlinear Dynamics, Ocean Acoustics, Signal Processing and Image Compression), Department of Electrical Communication Engineering, Indian Institute of Science, Bangalore 560 012. (e-mail: anandgv@ece.iisc.ernet.in)
S, T, AA.
6. **Ananthkrishnan, Prof. S.** (sp. Extragalactic Radio Astronomy, Solar Wind & Interplanetary Scintillation, Very Long Baseline Interferometry Techniques and Analog Electronics), National Centre for Radio Astrophysics (TIFR), Pune 411 007. (e-mail: ananth@ncra.tifr.res.in)
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7. **Anil Kumar, Dr** (sp. Chemical Thermodynamics, Physical Organic Chemistry and Biophysical Chemistry), Physical Chemistry Division, National Chemical Laboratory, Pune 411 008.
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8. **Bachhawat, Dr Anand K.** (sp. Microbial Genetics, Molecular Genetics and Microbial Biochemistry), Institute of Microbial Technology, Chandigarh 160 036.
(e-mail: anand@imtech.res.in)
S, T, AA.
9. **Bagchi, Prof. Biman** (sp. Physical & Biophysical Chemistry, Statistical Mechanics, Molecular Relaxation and Chemical Reaction Dynamics in Liquids & Complex Systems), Solid State and Structural Chemistry Unit, Indian Institute of Science, Bangalore 560 012.
S, T, AA.
10. **Balakrishnan, Prof. N.** (sp. Numerical Electromagnetics, Information Security, Polarimetric Radars and Aerospace Electronic Systems), Supercomputer Education & Research Centre, Department of Aerospace Engineering, Indian Institute of Science, Bangalore 560 012.
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11. **Balaram, Prof. P.** (sp. Bio-Organic Chemistry and Molecular Biophysics), Molecular Biophysics Unit, Indian Institute of Science, Bangalore 560 012.
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12. **Banerjee, Dr Srikumar** (sp. Physical Metallurgy, Phase Transformations and Electron Microscopy), Bhabha Atomic Research Centre, Mumbai 400 085.
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S, T, AA.
13. **Basavaiah, Prof. D.** (sp. Stereoselective Organic Synthesis, Chiral Catalysis and Reaction Mechanisms), School of Chemistry, University of Hyderabad, Hyderabad 500 046.
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14. **Bhandari, Prof. N.** (sp. Earth & Planetary Sciences and Nuclear Geophysics), Planetary Sciences & Exploration Program, Physical Research Laboratory, Navrangpura, Ahmedabad 380 009. (e-mail: bhandari@prl.ernet.in)
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15. **Bharadwaj, Prof. P.K.** (sp. Supramolecular Chemistry, Inorganic Chemistry and X-ray Crystallography), Department of Chemistry, Indian Institute of Technology, Kanpur 208 016. (e-mail: pkb@iitk.ac.in)
S, AA.
16. **Bhat, Prof. S.V.** (sp. Condensed Matter Physics, Solid State NMR, Electron Paramagnetic Resonance, Fast Ionic Conductors and Strongly Correlated Systems: High Temp. Superconductors & CMR, CO/OO Manganites), Department of Physics, Indian Institute of Science, Bangalore 560 012. (e-mail: svbhat@physics.iisc.ernet.in)
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17. **Bhatia, Prof. R.** (sp. Analysis of Matrices and Operators in Hilbert Space), Indian Statistical Institute, New Delhi 110 016.
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18. **Bhattacharjee, Prof. J.K.** (sp. Critical Phenomena, Turbulence and Nonlinear Dynamics), Department of Theoretical Physics, Indian Association for the Cultivation of Science, Kolkata 700 032. (e-mail: tpjkb@mahendra.iacs.res.in)
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19. **Bhattacharya, Prof. Dipankar** (sp. High Energy Astrophysics, Neutron Stars and Gamma Ray Bursts), Raman Research Institute, Bangalore 560 080.
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20. **Bhattacharya, Prof. Samir** (sp. Reproductive Biology and Comparative Endocrinology), Department of Zoology, School of Life Sciences, Visva Bharati University, Santiniketan 731 235.
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21. **Bhattacharya, Prof. Sudha** (sp. Molecular Biology, Molecular Parasitology and Genomics), School of Environmental Sciences, Jawaharlal Nehru University, New Delhi 110 067.
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26. **Bose, Prof. Indrani** (sp. Theoretical Condensed Matter Physics, Statistical Physics and Cross-Disciplinary Physics), Department of Physics, Bose Institute, Kolkata 700 009.
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62. **Hasnain, Dr S.E.** (sp. Molecular Biology & Genetics, Gene Expression and Molecular Pathogenesis), Centre for DNA Fingerprinting and Diagnostics, Hyderabad 500 076.
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63. **Hegde, Prof. M.S.** (sp. Electron Spectroscopy of Molecules & Solids, High Temperature Superconductivity, Thin Films, Solid State Chemistry and Catalysis), Solid State and Structural Chemistry Unit, Indian Institute of Science, Bangalore 560 012.
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64. **Hosur, Prof. R.V.** (sp. Biomolecular Conformation, NMR Spectroscopy, Nucleic Acid-Protein Interaction and Structural Biology), Department of Chemical Sciences, Tata Institute of Fundamental Research, Mumbai 400 005. (e-mail: hosur@tifr.res.in)
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66. **Jacob, Prof. K.T.** (sp. Thermodynamics of Materials, Phase Equilibria, Corrosion & Chemical Processing at High Temperatures, Ceramics and Solid State Chemical Sensors), Department of Metallurgy, Indian Institute of Science, Bangalore 560 012.
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67. **Jagannathan, Prof. N.R.** (sp. MR Imaging & in-vivo MR Spectroscopy in Living Systems and Structure & Conformation of Biomolecules), Department of NMR, All India Institute of Medical Sciences, New Delhi 110 029. (e-mail: jagan1954@hotmail.com)
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68. **Jayaram, Prof. Vikram** (sp. Ceramics, Thin Films and Electron Microscopy), Department of Metallurgy, Indian Institute of Science, Bangalore 560 012.
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70. **John, Prof. P.I.** (sp. Plasma Physics, Intense Particle Beams and Industrial Applications of Plasma), Institute for Plasma Research, BHAT, Gandhinagar 382 428.
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S, AA.
72. **Joshiyura, Prof. A.S.** (sp. Theoretical High Energy Physics), Theory Group, Physical Research Laboratory, Navrangpura, Ahmedabad 380 009.
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73. **Kailas, Dr S.** (sp. Nuclear Optical Model, Giant Resonances, Heavy-Ion induced Fission/Fusion and Accelerator-based Applied Physics), Nuclear Physics Division, Bhabha Atomic Research Centre, Mumbai 400 085.
S, T, AA.
74. **Kanhere, Prof. D.G.** (sp. Condensed Matter Theory, Computational Physics, Strongly Correlated Systems and Density Functional Theory), Department of Physics, University of Pune, Pune 411 007.
S, ANA.
75. **Kannan, Prof. V.** (sp. Analysis and Topology), School of Mathematics and Computer/Information Sciences, University of Hyderabad, Hyderabad 500 046.
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76. **Karandikar, Prof. R.L.** (sp. Stochastic Calculus, Stochastic Finance, Stochastic Filtering Theory and Markov Processes), Indian Statistical Institute, New Delhi 110 016.
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S, T, AA.
77. **Kaul, Prof. R.K.** (sp. Particle Physics, Quantum Field Theory and Quantum Gravity), The Institute of Mathematical Sciences, Chennai 600 113.
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78. **Kaul, Prof. S.N.** (sp. Condensed Matter Physics, Phase Transitions & Critical Phenomena and Magnetism & Magnetic Materials), School of Physics, University of Hyderabad, Hyderabad 500 046.
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79. **Kaw, Prof. P.K.** (sp. Plasma Physics), Institute for Plasma Research, BHAT, Gandhinagar 382 428. (e-mail: kaw@ipr.res.in)
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80. **Khakhar, Prof. D.V.** (sp. Rod-like Polymer Reactions, Polyurethanes and Granular Mixing), Department of Chemical Engineering, Indian Institute of Technology, Mumbai 400 076.
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83. **Kulkarni, Dr B.D.** (sp. Chemical Reaction Engineering and Mathematical Modelling & Simulation), Chemical Engineering Division, National Chemical Laboratory, Pune 411 008.
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84. **Kulkarni, Prof. Sulabha K.** (sp. Surface Physics, Materials Science and Nanoscience), Department of Physics, University of Pune, Pune 411 007.
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85. **Kumar, Prof. M. Udaya** (sp. Molecular Basis of Stress Resistance, Physiology of Water Use Efficiency in Plants and Canopy Photosynthesis), Department of Crop Physiology, University of Agricultural Sciences, Bangalore 560 065. (e-mail: udayakumar_m@yahoo.com)
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86. **Kumar, Prof. N.** (sp. Condensed Matter Physics, Stochastic Transport Processes & Statistical Physics, High Temperature Superconductivity and Localization in Disordered Systems), Raman Research Institute, Bangalore 560 080.
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87. **Lakhotia, Prof. S.C.** (sp. Cytogenetics, Gene Expression and Molecular Biology), Department of Zoology, Banaras Hindu University, Varanasi 221 005.
S, AA
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89. **Lal, Prof. Shyam** (sp. Ozone & Trace Gases for Atmospheric Processes and Environmental & Climatic Changes), Physical Research Laboratory, Ahmedabad 380 009.
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91. **Mahadevan, Prof. S.** (sp. Regulation of Gene Expression in Bacteria, Microbial Physiology and Microbial Evolution), Department of Molecular Reproduction, Development and Genetics, Indian Institute of Science, Bangalore 560 012.
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92. **Maharana, Dr J.** (sp. String Theory, Field Theory and Quantum Gravity), Institute of Physics, Bhubaneswar 751 005. (e-mail: maharana@iopb.res.in)
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93. **Maitra, Prof. Uday** (sp. Supramolecular Chemistry of Bile Acids, Synthesis & Properties of Bile Acid Analogs and Organo & Hydrogels), Department of Organic Chemistry, Indian Institute of Science, Bangalore 560 012.
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94. **Majumder, Prof. Partha P.** (sp. Biostatistics, Human Genetics and Population Genetics), Anthropology & Human Genetics Unit, Indian Statistical Institute, Kolkata 700 108.
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95. **Mallik, Prof. A.K.** (sp. Vibration Engineering, Kinematics and Dynamics of Machines), Department of Mechanical Engineering, Indian Institute of Technology, Kanpur 208 016.
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