TWO POSTDOCTORAL POSITIONS AVAILABLE IN NANOMATERIALS AND SERS/BIOSPECTROSCOPY AT PURDUE UNIVERSITY

WHERE: AT THE BINDLEY BIOSCIENCES CENTER IN PURDUE UNIVERSITY’S DISCOVERY PARK (http://discoverypark.purdue.edu/wps/portal/Bioscience).

WHEN: SEPTEMBER/OCTOBER 2008

TECHNICAL QUALIFICATION: PH.D IN ANY ONE OF THE FOLLOWING OR RELATED AREAS – BIOPHYSICS, PHYSICAL/ANALYTICAL CHEMISTRY, BIOLOGICAL ENGINEERING, BIOTECHNOLOGY OR A RELATED DISCIPLINE WITH A GOOD PUBLICATIONS RECORD

REQUIREMENTS: HIGHLY MOTIVATED, CREATIVE, HARDWORKING, INDIVIDUALS WITH AN URGE TO PUBLISH AND EXCEL IN RESEARCH SHOULD APPLY.

EXPERTISE IN ANY OF THE FOLLOWING FIELDS: 1) SURFACE ENHANCED RAMAN SPECTROSCOPY FOR MECHANISTIC UNDERSTANDING OF SINGLE CELLS AND/OR, 2) BIO INSTRUMENTATION/BIOSPECTROSCOPY, AND/OR 3) MULTIFUNCTIONAL NANOMATERIALS AND NANOBIOSENSORS.

OTHER SKILLS: BASIC HANDLING MAMMALIAN CELLS, BASIC SKILLS IN BIOFUNCTIONALIZATION; FAMILIARITY WITH STANDARD CHARACTERIZATION TOOLS, MICROSCOPY, COMMUNICATION AND WRITING SKILLS.

WORK ENVIRONMENT: MULTIDISCIPLINARY, FRIENDLY, MOTIVATING AND GEARED TO EXCEL, ACCESS TO STATE OF THE ART LABORATORY FACILITIES AND TOOLS INCLUDING THE BIRCK NANOTECHNOLOGY CENTER. WILL COLLABORATE WITH PURDUE CANCER CENTER AND/OR INDIANA UNIVERSITY’S MEDICAL CENTER TO DEVELOP METHODOLOGIES FOR UNDERSTANDING BASIC CELLULAR and BIOMOLECULAR PROCESSES.

CONTACT: Dr. Joseph Irudayaraj
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GRADUATE RESEARCH ASSISTANTSHIPS AND
POSTDOCTORAL POSITIONS AT PURDUE UNIVERSITY

WHERE: AT THE BINDLEY BIOSCIENCES CENTER IN PURDUE UNIVERSITY’S DISCOVERY PARK
(http://discoverypark.purdue.edu/wps/portal/Bioscience).

WHEN: NOW

QUALIFICATION: A DEGREE IN ONE OF THE FOLLOWING OR RELATED AREAS - BIOOPTICS/BIOPHOTONICS, CELL BIOLOGY, CELL PHYSIOLOGY, PHYSICAL CHEMISTRY, BIOPHYSICS, PHYSICS, EE, OR A RELATED DISCIPLINE.

TASKS: DEVELOP TOOLS TO ENHANCE EXISTING STATE-OF-THE-ART SINGLE MOLECULE SPECTROSCOPY/MICROSCOPY INSTRUMENTATION AT BINDLEY BIOSCIENCE CENTER, DEVELOP THEORETICAL FOUNDATIONS BASED ON BIOPHYSICAL CONCEPTS TO FURTHER UNDERSTAND BASIC CELLULAR and BIOMOLECULAR PROCESSES INCLUDING TRANSPORT, PROTEIN INTERACTIONS, GENE INTERACTIONS, MOLECULAR MOTOR MECHANISM ETC. WILL WORK CLOSELY WITH PURDUE CANCER CENTER AND INDIANA UNIVERSITY’S MEDICAL CENTER.

WORK ENVIRONMENT: MULTIDISCIPLINARY, MOTIVATING AND GEARED TO EXCEL, ACCESS TO STATE OF THE ART LABORATORY FACILITIES AND TOOLS INCLUDING THE BIRCK NANOTECHNOLOGY CENTER.

ADDITIONAL SKILLS: RESEARCH EXPERIENCE OR THESIS IN ASPECTS OF CELLULAR BIOLOGY, BIOPHYSICS, BIOOPTICS, BIOPHYSICAL METHODS FOR STRUCTURAL ANALYSIS, BIOINSTRUMENTATION OR RELATED; COMMUNICATION AND WRITING SKILLS.

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DETAILS OF ASPECTS OF OUR CURRENT RESEARCH AND INSTRUMENTATION CAN BE FOUND AT:
http://www.purdue.edu/dp/psf/joseph.php [site is being updated !!]