RECRUITMENT OF JUNIOR RESEARCH FELLOW

Applications are invited for the position of Junior Research Fellow under the Project titled "Design and Development of Novel Quantum Nano-heterostructures for Sensing and Smart Nanozyme Antibacterial Surface Applications" in the Department of Physics, Berhampur University. The project is sponsored by Science and Engineering Research Board, Government of India.

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Nature of work	The work will involve cutting-edge research and
	development tasks in the area of sensors for
	blood glucose detection. The work will be carried
	out in collaboration with Dr. Shuvendu Jena,
	BARC, Mumbai, and will involve design, analysis,
	fabrication and testing of the metal oxide nano
	structure-based electro optic sensor for
	measurement of blood glucose level using exhale
	breath, and design of antibacterial surface effect.
	The JRF is expected to carry out high impact
	research, and produce patents/ research
	manuscripts for journals/conferences in these
	R&D areas. The work may involve some amount
	of travels to collaborator and other institutes for
	characterization, analysis and testing.
No. of Position	One
Duration of appointment	For a period of 1 year. It may be further extended
	based on the performance of the candidate and
	availability of funding.
Eligibility	Essential qualification:
	- M.Sc./M.E in Electronics / Physics
	Desirable:
	-Experience in design and Simulation of Optical
	sensor related devices.
	- Ability to work in a team, good communication
	skills.
	-Expertise in coding
	Age limit:
	- Below 32 years as on date of application,
Consolidated Calema	- Below 32 years as on date of application, preferably under 28 years.
Consolidated Salary	- Below 32 years as on date of application, preferably under 28 years. Rs. 31, 000/- Per Month
HRA	- Below 32 years as on date of application, preferably under 28 years. Rs. 31, 000/- Per Month As per Institute norms.
HRA Medical Benefits	- Below 32 years as on date of application, preferably under 28 years. Rs. 31, 000/- Per Month As per Institute norms. As per the Funding Agency norms.
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	Prof. Sukanta K. Tripathy P. G. Dept. of Physics, Berhampur University Bhanja Bihar, Berhampur-760007, Ganjam, Odisha
Last Date of application	15.12.2022

General Instructions:

- If the number of applications received in response to advertisement is large, the constituted selection committee may restrict the number of candidates to be called for interview to a reasonable limit of desirable qualification and /or on the record of academic performance and/or any other benchmark decided by a committee constituted to screen the applications. No communication will be entertained with candidates who are not called for Interview.
- 2. If the applicants have any questions, they can write to skt.phy@buodisha.edu.in and in the subject they have to mention "BRNS Project 2022".
- 3. The appointment is purely temporary and will terminate automatically without any notice or compensation on termination of the research project.
- 4. The appointed person shall have no claim of appointment / absorption in funding Agency or in Berhampur University.
- The qualification prescribed should have been obtained from recognized Universities / Institutions.
- 6. No TA/DA will be admissible for appearing for the interview.
- 7. Selected candidate will have to join in a reasonable time upon receipt of the offer.

More about the project

Total Duration: 3 Years (December 2022-November 2025)

The aim of the project is to develop a cost effective, portable, and non-invasive biosensor for blood glucose monitoring and development of antibacterial surface effect through surface modification technique. The project, by its very nature, is multidisciplinary and will involve:

- Synthesis of surface modified nano hetero structured materials
- Design, Simulation, and fabrication of fiber based optical sensors
- Design, Simulation, and fabrication of contact angle of surface
- Integration of different electronic and optical components
- Selection and programming of micro controllers and power supply, etc.

This collaborative project demands interaction with medical practitioners and travel between the participating institutes as well as other institutes for carrying out desired R&Ds.

Principal Investigator: Prof. Sukanta Kumar Tripathy, Professor, Department of Physics.

Berhampur University, Bhanja Bihar, Berhampur-760007, Ganjam, Odisha

Email: skt.phy@buodisha.edu.in