National Institute of Advanced Studies
IISc Campus, Bengaluru

Call for Applications: Project/Research Associate (Ultrasound Test & Evaluation Engineer)

National Institute of Advanced Studies (NIAS) was conceived and founded in 1988 by the late Mr. J. R. D. Tata, who sought to create an institution to conduct advanced multidisciplinary research. Housed in a picturesque green campus in Bangalore the Institute serves as a forum to bring together individuals from diverse intellectual backgrounds, in the natural and life sciences, humanities, social sciences, and conflict and security studies. The philosophy underlying NIAS is given shape by its multidisciplinary research teams. The Institute is unique in its integrated approach to the study of intersections between science and technology, philosophy, social issues and leadership. The objective is to nurture a broad base of scholars, managers and leaders who would respond to the complex challenges that face contemporary India and global society, with insight, sensitivity, confidence and dedication. For more details: www.nias.res.in

NIAS invites applications from the eligible candidates for a position of Project/Research Associate (Ultrasound Test & Evaluation Engineer) to work on a research project titled "Distributed Intelligent Ultrasound Imaging System for Secure in-community Diagnostics" funded by Global Challenges Research Fund of EPSRC, UK.

Job Duration: 1 year

Job description:

i. Hardware and software testing of ultrasound scanning systems
ii. Calibration and testing of position and orientation sensor in combination with ultrasound imaging system.
iii. System level design and liaison with external vendors for fabrication of custom made ultrasound imaging system

Qualifications and Experience:
i. Essential: M.Sc./B.Tech in Instrumentation/Electronics/Computer Science or equivalent.
   Desirable: M.Tech / Ph.D with relevant experience.
ii. Knowledge of ultrasound imaging system architecture, Quality Life Cycle Management, and Software Quality Assurance in compliance with different medical device standards (ISO 13485, FDA guidelines and IEC standards)
iii. Experience and knowledge of regulatory approval processes for medical device in India and in global markets.
iv. Maintenance/ calibration of current generation Ultra Sound Scanners /Doppler machines is desirable.
v. Good programming knowledge in C++/Java is desirable

Mode of Application:

Interested applicants should submit their curriculum vitae electronically along with the following documents (<u>as a single PDF document</u>) :-
1. Covering letter
2. Statement of Purpose
3. Copy of degree certificate

The deadline for receiving applications is 30 December 2019. Short-listed candidates will be invited to NIAS for a presentation followed by an interview.

Salary will be commensurate with qualifications and experience.

The applications should be addressed to:

Name of the PI : Dr V Bhujanga Rao
National Institute of Advanced Studies
Indian Institute of Science Campus
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