

Advertisement for Senior Research Fellow (SRF) for BRNS, Department of Atomic Energy Sponsored Project

Department of ECE, Sri Sairam Engineering College, Chennai is inviting applications from qualified candidates for the post of Senior Research Fellow (SRF) to work on the research project entitled " **Comparative Study of Image Processing Techniques for Measuring In-Situ Bow of FBR Fuel subassembly**" funded by Department of Atomic Energy (DAE)-Board of Research in Nuclear Sciences (BRNS), India. Principal investigator of the project is Dr. S.Sumathi, Associate Professor, Department of ECE. The details of the post are as follows:

Post: Senior Research Fellow (SRF) - One post

Nature of post: Temporary

Fellowship: Rs. 35,000/- p.m + HRA *

(* subject to disbursement from DAE-BRNS)

Duration: Maximum 3 years or up to termination of the project whichever is earlier

Qualification:

1. A First Class ME/M.Tech in Applied Electronics, Embedded system, Control and Instrumentation, Instrumentation engineering, Communication system, Electronics and communication, Digital and signal processing or equivalent.
2. Two years of research experience.

Expected Skills:

1. Sound knowledge in the ultrasonic field to carry out image simulation.
2. Practical experience in ultrasonic scanning and imaging.
3. Programming in MATLAB.

Job Description:

1. Modeling of scanning and imaging of the simulated subassembly tops with certain bow values. Determination of the bow values from the images obtained and its accuracy.
2. Experimental verification (to be done at IGCAR, Kalpakkam) of the findings from the model.
3. Based on the required accuracy for bow estimation and optimum scanning speed, recommendation of one or more image analysis methods for application in reactor.

4. Preparation of the above validated software into a package with suitable HMI for application in reactor.

Upper Age limit: 35 Years

Last date for submitting application: 10.03.2020

Applications with complete bio-data along with attested copies of necessary certificates should reach to [Dr. S.Sumathi](#), ECE, Sri Sairam Engineering College, and Chennai 600044 or by e-mail at sumathi.ece@sairam.edu.in on or before **10th March 2020**. Date of test/interview will be communicated separately to each candidate. No T.A. /D.A. will be given to the candidates for attending the test/interview.