

Big Data Analytics Center
School of Natural Science
Shiv Nadar University

APPLICATIONS INVITED FOR RESEARCH ASSOCIATE (Big Data Analytics)

Applications are invited for the post of research associate in an IBM – Shared University Research funded project entitled “**Web–Medical–Images: Exploring the Power of Variability and Similarity of Medical Images on the Web**” under the joint supervision of Dr. Santosh Singh and Dr. Krishnan Rajkumar, Big Data Analytics Center and Department of Mathematics, School of Natural Science, Shiv Nadar University, UP 201314. For more information, please visit the faculty website.

Essential and Desirable Qualification

The applicant must have M.Tech/M.E in Computer Science/ Electrical Engineering, M.Sc. in Mathematics/Statistics/Physics from a recognized university with a minimum of 60% or equivalent grade. It is essential to have a strong background in data structures and programming.

Fellowship

As per the standard norms, ₹ 25,000/- per month plus HRA as permissible.

Duration

One year (extendable based on the performance and availability of funds).

Project Description

We describe the “**Web-Medical-Images**” system to explore two fundamental questions related with similarity in medical images in terms of the diseases and anatomy and variability in terms of patients, regions and modalities. First, what are effective techniques for capturing the similarities and variabilities? Second, we would like to introduce the object derived from the mining of the Web database corpus in terms of similar patterns capturing the similarities and variabilities.

The motivation in this project is to develop a software architecture which can cluster the medical images based on the similarities of anatomy, disease and image acquisition modality, which requires an efficient mathematical tool to capture the salient features as well as an efficient web search techniques.

Nature of Work

To design and develop algorithms for feature extraction, understand the computational complexity and a software architecture as per the project description.

How to Apply

SHIV NADAR UNIVERSITY

Applications with complete bio-data (with details of qualification, i.e. examination passed, year, division, percentage of marks 10th board onwards, and photocopies of mark sheets/testimonials/ certificates) should be sent by email (or by post) to reach the following office on or before 23 November 2016:

Ms. Lakshmi Paliwal EA to Head, Big Data Analytics Center, School of Natural Science, Shiv Nadar University PO Tehsil Dadri, District Gautam Budha Nagar UP 201 314, India.

Email: lakshmi.arya@snu.edu.in, Telephone: +91-1203819793

Selected candidates will be called for interview at Shiv Nadar University campus. No TA/DA will be provided for appearing in this interview.

About Shiv Nadar University

Shiv Nadar University is a comprehensive, multidisciplinary, research-focused and student-centric institution that is bringing a paradigm shift in higher education in India through its innovative curriculum, interdisciplinary focus, and cross-disciplinary thinking across a wide range of disciplines. The University is building an eco-system of knowledge to promote recognition of the inter-connectedness of ideas, systems, and environments in the world inside the campus, and those outside it. The University has 5 Schools, 16 Departments and 6 Research Centers engaged in teaching, practice, and research in disciplines as diverse as Engineering, Humanities & Social Sciences, Management, Natural Sciences, Art, Design, Performing Arts, Communication, and Extended Education & Professional Development. The schools offer Bachelor, Masters, and Doctoral degrees along with multidisciplinary curriculum to enable students to explore subjects and disciplines that may be widely different from their chosen Majors.