

SYMBIOSIS CENTRE FOR MEDICAL IMAGE ANALYSIS

Symbiosis International (Deemed University)

(Established under section 3 of the UGC Act, 1956)

Re-accredited by NAAC with 'A' grade (3.58/4) | Awarded Category - I by UGC

Founder: Prof. Dr. S. B. Mujumdar, M. Sc., Ph. D. (Awarded Padma Bhushan and Padma Shri by President of India)



SCMIA/ADMIN/2022/24

Date: 20.03.2023

Postdoctoral Research Fellow (PDRF) positions at Symbiosis International (Deemed University) Lavale, Pune.

The Symbiosis Centre for Medical Image Analysis (SCMIA) (<https://scmia.edu.in/>) at the Symbiosis International (Deemed) University invites applications for a Postdoctoral Research Fellow position. This position is immediately available and is in the domain of advanced computational imaging for medical image acquisition, analysis, and synthesis.

We are looking for candidates who have a translational expertise in one or more of the following areas: deep learning/machine learning for medical imaging; musculoskeletal imaging-based biomechanics; functional neuroimaging (fMRI); diffusion MRI; applied AI for medical image analysis; computational imaging; image guided medical robotics; and advanced medical imaging technologies. A knowledge to handle high end computing systems and GPU servers such as NVIDIA DGX would be a plus. The selected candidate will work on a collaborative project with University of Cambridge on Femoroacetabular impingement and its clinical management. The responsibilities within the project include publish scientific results in peer-reviewed journals, work closely with the faculty and research center staff for writing/submitted research proposals, data acquisition and analysis, mentor/supervise research activities for graduate and undergraduate students, and interact with the collaborators at Cambridge and other stakeholders such as radiologists, oncologists, neurologists, surgeons, biostatisticians, other clinicians, and engineers.

Our research center (SCMIA) is one of a kind in India as it is focused on conducting translational research in medical imaging domain and has dedicated access to engineering (networking technologies, robotics etc.), computational (servers, GPU workstations etc.), and medical (MRI, CT imaging and data) facilities. The center is located at Symbiosis' Lavale campus between the Engineering institute (Symbiosis Institute of Technology) and the Symbiosis University hospital and Research Center (SUHRC). The successful candidate must be highly motivated and goal-oriented and must have proven abilities to solve image analysis problems.

Qualification: A Ph.D. (or ABD) in computer science, electronics and telecommunication, data sciences, mathematics, biomedical engineering etc. with experience in medical imaging and machine learning domains. At least two research papers with a respectable impact in the concerned research area and publication in journals indexed in WoS/Scopus.

Supervision: The appointees will be supervised by Asst. Prof. Bhushan Borotikar.

Terms of Service: The appointees will be called as Postdoctoral Research Fellow (PDRF) and the initial award will be for **ONE** Year which can be extended for maximum of Two years. The extension after each year will be after thorough review of the candidate's performance.

How to apply: Interested candidates should submit the following application materials to Dr Bhushan Borotikar by April 15th, 2023 at: head@scmia.edu.in

- 1) A cover letter
- 2) A curriculum vita
- 3) A brief statement (2 pages max) of research statement
- 4) PDF copies of three recent publications
- 5) List of three professional references

Notes:

- These Fellowships are open for foreign nationals and overseas citizens of India too.
- A mere fulfilment of required minimum qualifications and experience does not entitle a candidate to be called for discussion.
- The foreign residents and overseas citizens of India can attend the interview via Zoom.
- The interviews for the Postdoctoral Fellows shall be conducted periodically in a calendar year.



Dr. Bhushan Borotikar
Head SCMIA

