Indian Institute of Technology Indore

Simrol Campus: Khandwa Road, Simrol Indore 453552

Ref.: IITI/MATHS/SB/S2/RJN-001/2016   Dated: 03.05.2017

Walk-in Advertisement for Research Assistant Position

Applications are invited from highly motivated and eligible candidates for one Research Assistant (RA) position in a SERB funded research project entitled, "*Classification and prediction of Alzheimer's disease using multimodal imaging data*" at IIT Indore.

Objective of the project:

The project focusing on early and accurate diagnosis of Alzheimer disease (AD). The current criteria for the inclusion of patients in clinical trials may thus not be sufficient for the discovery of disease-modifying treatments. Recently, neuroimaging has emerged a powerful tool to identify patients with AD. Multiple modalities allow measuring various types of alterations: magnetic resonance imaging (MRI) tracks atrophy caused by neurodegeneration, positron emission tomography (PET) allows measuring the presence of amyloid plaques and hypometabolism. However, powerful analysis tools are needed to fully exploit this multimodal data. In this context, machine learning approaches are particularly promising in order to design systems that can accurately classify patients with AD and predict their evolution. Machine learning approaches have been successfully applied to the individual classification of different neurological and psychiatric conditions such as Alzheimer disease, fronto-temporal dementia, autism and Parkinsonian syndromes.

It involves a strong background of optimization, machine learning, signal processing, and good knowledge of programming languages/software like MATLAB, C, Python etc.

Eligibility:

Candidates should have master degree in Mathematics/Computer Science/Electrical Engineering or equivalent.

Time and date of walk-in written test/interview: 09:00 hrs (sharp) on May 15, 2017 (Monday).

Venue: School Building, IIT Indore, Khandwa Road, Simrol, Indore, Pin Code 453 552, Madhya Pradesh.

Stipend:
The amount of Research Assistant will be as per SERB norms and it is approximately INR 12,000 + 20% HRA (if hostel accommodation is not provided).

Duration:
Initial appointment will be for one year, which is extendable up to a maximum of 3 years solely based on performance.

Age: As per DST-SERB norms.

Note: The Institute reserves the right to fill or not to fill the post advertised.

Application Process: Interested candidates may also email a copy of their detailed CV to Dr. M. Tanveer, Discipline of Mathematics, IIT Indore, via e-mail: mtanveer@iiti.ac.in with subject line "Application for RA position". CV should include details of academic grades starting from X standard onwards with details of year of passing, university or college, etc and also work experience and nature of work if applicable. No TA/DA will be paid for attending the presentation and interview. Candidates should make their own arrangements for stay.