



भारतीय सांख्यिकीय संस्थान INDIAN STATISTICAL INSTITUTE

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(An Autonomous Body funded by Ministry of Statistics and Program Implementation, GoI)
(सांख्यिकी और कार्यक्रम कार्यान्वयन मंत्रालय द्वारा वित्तपोषित एक स्वायत्त निकाय, भारत सरकार)



No.PU/507/ADV/125

11 May 2022

ADVERTISEMENT

Applications are invited for recruitment of eight (08) Project linked persons (one position for each project) purely on a temporary basis to work on the following research projects in the Advanced Computing & Microelectronics Unit (ACMU) of the Institute, Kolkata.

Sl. No.	Title of the Projects
1.	Minimum Discriminating Codes in Geometric Setup
2.	On the Interplay of Machine Models and Algorithms
3.	Verifying the Equivalence of Probabilistic Programs
4.	Geometric Shortest Path Problems with Violations
5.	Co-operative Channel Sharing in Cognitive Radio Ad Hoc Networks – Phase II
6.	Machine Learning Based Physical Design Automation for Next Generation ICs
7.	Network Selection in 5G and Beyond: an AI perspective
8.	Modelling, Verification and Synthesis for Multi-Access Edge Computing

- Qualifications :
- For Project 1:** M.Tech./ M.Sc. or equivalent degree in CSE with very good academic record all through, and having very good knowledge in data structures, algorithms, graph theory. A candidate who is about to complete an M.Tech. programme or has submitted PhD thesis in related areas may also apply.
 - For Project 2:** Ph.D. (submitted or awarded) in computer science/discrete mathematics with a very good academic record all through and having very good knowledge in discrete mathematics/randomized algorithms. Prior research experience in the area of discrete mathematics
 - For Project 3:** M.Tech./ M.E./ M.Sc./ Ph.D. (submitted or awarded) in CS or Mathematics or related topics with a very good academic record all through and having very good knowledge in data structures, algorithms, probability and proficiency in coding in Python/ C/ C++.
 - For Project 4:** M. Tech./ Ph.D. (submitted or awarded) in Computer Science.
 - For Project 5:** M.Tech./ Ph.D. (submitted or awarded) in Computer Science/ Electronics & Communication Engineering/ Electronics Engineering with a very good academic record all through and having very good knowledge in data structures, algorithms and machine learning with proficiency in coding in Python/ C/ C++. Prior research experience in the area of wireless networks/ cognitive radio is preferred.
 - For Project 6:** M.Tech./ M.S./ Ph.D. (submitted or awarded in related areas) in Computer Science/ Electronics & Communication Engineering/ Electronics Engineering with a very good academic record all through and having very good knowledge in data structures, algorithms and proficiency in coding in Python/ C/ C++. A candidate who is in the final semester of an M.Tech./ M.S. programme in related areas may also apply. Prior research experience in the area of machine learning is preferable.
 - For Project 7:** M.E./ M. Tech./ Ph.D. (submitted or awarded) in Computer Science & Engineering/ Electronics & Communication Engineering/ Electronics Engineering/ Engineering Technology and Commonwealth Engineering or related discipline with a good academic record; final year final semester students can also apply. Prior work experience in the area of Wireless Network/ Mobile Computing/ 5G/ AI is preferred.
 - For Project 8:** M.Tech./ M.S./ M.Sc./ Ph.D. (submitted or awarded) in Computer Science/ Information Technology with a very good academic record all through and having good knowledge in computer architecture, algorithms and proficiency in coding in Python/ C/ C++. Final year final semester M.Tech./ M.S./ M.Sc. students can also apply. Prior work experience in the area of Formal Verification/ Edge Computing/ Computer Architecture/ Operating Systems is preferred.
- Pay :
- A consolidated pay ranging EITHER between ₹28000/- (Rupees twenty eight thousand only) to ₹35000/- (Rupees thirty five thousand only) per month for candidates with M.Sc. in Computer Science/ M.C.A. or M.E./ M. Tech. degree (awarded/about to complete final examinations); OR ₹40000/- (Rupees forty thousand only) to ₹50000/- (Rupees fifty thousand only) per month for candidates with Ph.D. (submitted/ awarded) depending on the qualification and experience of the selected candidate.
- Tenure of appointment :
- Till at most 31 March 2023 from the date of joining in the Institute, which may be extended later/ terminated earlier based on the performance, and availability of the required funds for the corresponding project.
- Age :
- Should not exceed 35 years as on 01 May 2022. Age may be relaxed for exceptionally bright candidates with relevant research experience. Usual relaxation for SC/ST/OBC/EWS/Women/differently abled candidates will be applicable.

A candidate applying for one or more of the positions should send by email to headacmu@isical.ac.in by 27 May 2022, with Subject: ACMU PLP Recruitment 2022-23. A zip folder of PDF files only, containing Cover letter addressed to the Head, Advanced Computing and Microelectronics Unit, Indian Statistical Institute stating in English the Title(s) of the above listed research projects interested in order of preference and their current resume stating particulars of (a) Name (in block letters), (b) Mailing Address, (c) E-mail Address, (d) Telephone/Mobile No., (e) Parent's/Spouse's Name, (f) Date of birth, (g) Aadhaar No., (h) Academic Qualifications (mentioning the percentage of marks obtained starting from 10th board examinations onwards), (i) Experience (if any), (j) SC/ST/OBC/Differently abled status along with self attested copies of all documents/testimonials. At the time of joining, selected candidate(s) have to produce all relevant documents/testimonials in original for verification and a medical certificate of fitness from the Medical Officer of the Institute. Failing this, the institute will offer the position to the next candidate in the merit list prepared for this purpose. A resume with incomplete information will be summarily rejected. **Applicants shortlisted for written test/ interview (online or in person) will be notified in the last week of May 2022 by e-mail to the address provided in the application.** maintaining all preventive measures to prevent the spread of COVID-19 Global epidemic as directed by the Government of India. For further information, please visit the <http://www.isical.ac.in/~acmu>. The Institute reserves the right not to appoint any of the above. This advertisement is also available on our website www.isical.ac.in/jobs.

(Krishnendu Mukhopadhyaya)

Professor-in-Charge
Computer & Communication Sciences Division

- Copy to :
- Head, Advanced Computing & Microelectronics Unit.
 - Professor-in-Charge, Computer & Communication Sciences Division.
 - All Heads of Division/Departments/Sections/Units etc. for circulation amongst the workers and NOTICE BOARD.
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