ISLAMIC UNIVERSITY OF SCIENCE & TECHNOLOGY
AWANTIPORA. KASHMIR

Application are invited for filling up the below – mentioned positions under the **DST – PURSE** sponsored project "**Establishment of an Interdisciplinary Science and Technology Research Program for Chronic Diseases**". The positions are purely contractual & co-terminus with the project. **The last date for receipt of applications is 20-09-2023**.

Duration of the project: 4 years

Date of advertisement: 06-09-2023

Project Associate - II   (**2 positions**)

Essential qualifications

a) M.Sc. in Microbiology/ Biotechnology/ Biochemistry/ Molecular Medicine/Clinical Biochemistry/ Biosciences, or Immunology.
b) 2 years' experience in research and development in industrial and academic institutions, or science and technology organizations and scientific activities and services.

Job description: The candidate would be involved in a research project on *'Understanding the role of gut microbiota in high prevalence of non-communicable diseases in Kashmir valley'.*

Desirable qualifications: Experience in in vitro / ex vivo / in vivo models of research in chronic diseases, cancer, microbiology, immunology

Fellowship

i)   Rs. 35,000/- + HRA to scholars who are selected through
  a) National Eligibility Tests -CSIR-UGC NET including lectureship (Assistant Professorship) or GATE or
  b) A selection process through National level examinations conducted by Central Government Departments and their Agencies and Institutions.

ii)   Rs. 28,000/- + HRA for others who do not fall under (i)

<u>Project Associate - I</u> (**3 positions**)

Position 1

Essential qualifications

1. Master's Degree in Computer Science/ Computer Applications/ Information Technology/ Artificial Intelligence/ M. Tech. CSE or Equivalent.

2. The candidate should possess at least two years' of substantial research experience within the broader domain of Artificial Intelligence (AI), demonstrating a deep understanding of the field's principles, methodologies, and practices.

Desirable qualifications:

1. Proficiency in Deep Learning and Machine Learning: The candidate should have a proven track record of creating, implementing, and validating deep learning and machine learning algorithms. Proficiency in various neural network architectures, optimization techniques, and model evaluation metrics is essential.

2. Specialization in Medical Imaging and Genomic Data: The candidate should possess a specialized background in working with medical imaging and genomic data. A demonstrated ability to design, develop, and evaluate algorithms specifically tailored to the unique challenges posed by these data types is crucial.

3. Programming Proficiency: Proficiency in programming languages commonly used in AI research, such as Python, TensorFlow, PyTorch, and/or other relevant libraries, is essential. The candidate should be capable of efficiently translating research concepts into functional code.

4. Publication and Presentation Skills: Evidence of previous publication in reputable conferences or journals within the AI and medical imaging/genomic research fields is a plus. Strong presentation and communication skills, both written and verbal, are important for effectively conveying research findings.

Job description: The candidate would be involved in a research project on '*Taping the potential of artificial intelligence and machine learning to develop accurate and faster methods for diagnosing chronic diseases'*.

Position 2

Essential qualifications- MSc in Chemistry /MSc Food Tech / MTech

Desirable qualifications- Experience in extraction of natural products.

Hands on experience in LC-MS, GC-MS, Flash Chromatography, Supercritical fluid Chromatography; characterization of bio-active compounds in plant extracts; writing of reports / manuscripts / documents related to research work.

Job description: The candidate would be involved in a research project on '*Survey, collection, extraction, isolation and chemical characterization of therapeutic molecules from medicinal plants for chronic diseases*'**.**

Position 3

Essential qualifications

a) M.Sc. in Zoology/ Microbiology/ Biotechnology/ Biochemistry/ Molecular Medicine/Clinical Biochemistry/ Biosciences, or Immunology or MVSc, Bachelor's Degree in Medicine.
b) 2 years' experience in research and development in industrial and academic institutions, or science and technology organizations and scientific activities and services.

Desirable qualifications: Experience working with bioinformatics platforms (R software, SPSS), high dimensional data, experience in epidemiological surveys and excellent analytical, organizational and interpretative skills.

Job description: The candidate would be involved in a research project on '*Epidemiological survey of chronic diseases*'.

Fellowship for Project Associate - I
   i)   Rs. 31,000/- + HRA to scholars who are selected through
    a) National Eligibility Tests -CSIR-UGC NET including lectureship (Assistant Professorship) or GATE or
    b) A selection process through National level examinations conducted by Central Government Departments and their Agencies and Institutions.

   ii)   Rs. 25,000/- + HRA for others who do not fall under (i)

Terms and conditions:

1. The selected candidate will be on a contract initially for one year, which may be extended to 4 years depending upon performance.

2. No hostel / housing will be provided.

3. No TA/DA will be paid for attending the interview, if called for.
Candidates will be shortlisted for the interview based on merit. The date and time of interview will be informed *via* email.

4. Selection committee of DST sponsored PURSE project at Islamic University of Science and Technology reserves the right to fix suitable criteria for shortlisting the eligible candidates.

5. Apart from sending the application to purse@iust.ac.in in the prescribed format given below, candidates should send complete Curriculum Vitae with details of experience.

PRESCRIBED FORMAT

1. Full Name

2. Father's Name

3. Mother's Name

4. Date of Birth & Age

5. Gender

6. (a) Correspondence Address

   (b) Permanent Address

7. Contact details: E. mail-ID

   Mobile No.

8. Details of past experience

9. Details of present employment

10. Details of the academic / professional qualifications:

   Name of examination passed

   University

   Year of passing

   Percentage of marks