



**Dhirubhai Ambani
Institute of Information and Communication Technology**

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Advertisement for the Position of Junior Research Fellow (JRF)

Applications are invited from the interested candidates for the post of JRF position to work on the R&D project titled “**UCMA: A Toolset to Automatically Analyze Functional Requirements Specified in the Use Cases**” sanctioned by Science and Engineering Research Board (SERB), New Delhi. The staff will be appointed initially for one year (on contract) and their services will be extended for one year more based on the performance review. The position is full-time.

Name of the Position	Maximum Duration	Fellowship	Qualifications	No. of Position
JRF	24 Months	Rs 25000 PM (consolidated)	B.E./B.Tech with NET/GATE or M.E./M.Tech in CSE/IT/Information Science/other related fields	One

Summary: The project aims to develop, *UCMA (Use Case Modeler and Analyzer)*, a toolset to analyze automatically the functional requirements specified in the use cases. UCMA employs *Natural Language Processing (NLP)*, a restricted form of use case specifications, and implementation of the well-known authoring guidelines, which would help the analyst to document problem specification in use cases using the proposed annotations. The developed tool also supports the automated generation of Use Case Maps and estimation of the effort required to implement the functional requirements using Use Case Point (UCP) based effort estimation method. Use cases are expected to follow a template – an ideal use case template identified by a subject-based empirical evaluation in improving the usability of use case models – with a set of authoring guidelines that reduce imprecision and enable NLP. We also aim to integrate UCMA with IBM Doors that are widely adopted in industry for eliciting the requirements.

Research areas: Software Engineering (Experimental Software Engineering, Requirement Engineering), Natural Language Processing

Application Process: Applications should include a brief letter of motivation (max. 1 page), the curriculum vitae, programming language (or technical) expertise, a list of at least three referees with full coordinates, and copies of degree certificate(s).

Please send your application as ONE PDF file (max 10 MB) to: saurabh_t@daiict.ac.in
Application received by March 30th 2017 will get priority.

The written test/interview will be conducted for all the eligible candidates. The applicants need to bring all the original documents for verification during written test/interview. The list of shortlisted candidates will be posted in the institute website along with the date and time of the written test/interview. No TA/DA will be given to participate in the recruitment process.

Contact Details:

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Note: The applicant may also get the opportunity to register for M.Tech/PhD in DA-IICT based on his/her performance during the project.