INSTITUTE FOR DEVELOPMENT AND RESEARCH IN BANKING TECHNOLOGY

(Established by Reserve Bank of India)

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Engagement for Video KYC Project Positions

The Institute for Development and Research in Banking Technology (IDRBT), established by the Reserve Bank of India, is the premier Institute of Banking and Financial Technology in the country. The Institute spearheads efforts in providing state-of-the-art technologies for the Indian Banking and Financial Sector by interfacing Applied Research and Development, Academics, Executive Education, Practice and Consultancy so as to continuously enable the technology transformation of the Banking and Financial Sector in India and make it future-ready.

The Institute is working on a major research project entitled "Blockchain and Machine Learning Powered Unified Video KYC Framework" (in collaboration with IIIT Hyderabad and IIT Bhilai). Sponsored by the Ministry of Electronics and Information Technology (MeitY), Government of India, IIT Bhilai Innovation and Technology Foundation (IBITF) and RBI Innovation Hub (RBIH), the objective of the project is to develop a Blockchain and Machine Learning powered unified video KYC framework for the financial sector. The developed solution would be ready for transfer to the financial institutions.

In order to contribute to this transformational research project, applications are invited from young dynamic candidates for the following temporary project positions:

POSITION I: Senior Project Engineer - Distributed Ledger Technology

i.   **No. of Positions:** Three

ii. **Primary Responsibilities:**

- To build a Blockchain network using permissioned setup (such as Hyperledger fabric) and integrate modules developed using AI/ML, user authentication and verification using smart contract in the Blockchain network.
- To setup and test efficiency of each research components in the platforms.
- To carry out any other responsibilities assigned by the Institute.

iii. **Eligibility:**

(a) Educational Qualifications

- First class regular ME/MTech/B.E/B.Tech/MCA or above from a recognized University with a consistently good academic record throughout.

(b) Experience

A minimum of three years post-qualification experience in industrial project development in the areas of:

- Current Blockchain Technologies – Hyperledger Fabric
- Virtualisation Mechanisms – Dockers / VMs
- Programming Skills – Go, Java, NodeJS, Python

(c) Desired Skills

- Good knowledge of Distributed Systems, virtualization and networking

iv.   **Term:** One year. Extendable based on the duration of the project, project requirements, performance of the candidate and fund availability.

v.   **Compensation:** All-inclusive consolidated compensation of upto Rs One Lakh per month.

Position II: Senior Project Engineer - Artificial Intelligence / Machine Learning

i.   **No. of Positions:** Nine

ii.   **Primary Responsibilities:**

- For Computer Vision
  - (a) Face extraction from Video stream
  - (b) Face spoof detection
  - (c) Document extraction from video
  - (d) Extracting data from document
  - (e) Document integrity verification
  - (f) To carry out any other responsibilities assigned by the Institute.

- For Chatbot
  - o Collaborate with teams, solution architects and other developers to design, develop, test, and deploy audio-visual Chatbot solution
  - o Integrate Chatbot solutions with other components and maintain and enhance Chatbot platform to meet changing needs
  - o Identify, analyze, and interpret the pattern, trends, and conversational flow in complex speech / textual data sets
  - o Provide technical software support, including investigation and qualification of bugs, interpreting procedure manuals, and maintaining accurate documentation.
  - o To carry out any other responsibilities assigned by the Institute.

iii.   **Eligibility:**

(a) Educational Qualifications

- First class regular ME/MTech/B.E/B.Tech./MCA or above from a recognized University with a consistently good academic record throughout.

(b) Experience

A minimum of three years post-qualification experience in industrial project development in the areas of:

- Artificial Intelligence / Machine Learning
- Computer Vision
- At least one or more Chatbot frameworks like RASA, Dialog Flow, kore.ai, Microsoft Luis, IBM Watson, AWS, etc.
- Designing and development of AI/Deep learning tools across Machine Learning, Intelligent Automation, Speech-to-Text Conversion / Speech Synthesis and Conversation Intelligence using Python / Java

(c) Desired Skills

- Good understanding of Machine Learning-based solution design and experimental framework
- Programming in Python with the knowledge of relevant libraries
- Good knowledge on Bot Service (Input Channels, Authentication, writing Custom Code for BOT Logic etc.), testing and analysis of Chatbot framework.
- Understanding of basic NLP and Deep learning algorithms required for Chatbot development.
- Good understanding of terminologies used in cloud framework, non-relational databases, and the services used from the cloud service provider to implement the Chatbot

(d) Reservation

- One position is reserved for Schedule Caste candidate, three positions are reserved for OBC (Non-Creamy Layer) candidates and five positions are for General candidates

iv. **Term:** One year. Extendable based on the duration of the project, project requirements, performance of the candidate and fund availability.

v. **Compensation:** All-inclusive consolidated compensation of upto Rs One Lakh per month.

<p align="center"><u>Position III: Full Stack Developer</u></p>

i. **No. of Positions:** Seven

ii. **Primary Responsibilities:**

- Deploy multi-tier applications
- Integration of back-end components
- Administration and maintenance of open-stack based cloud environment
- Automation and management of CI/CD/CT pipelines
- Design, develop, implement and maintain Android based mobile apps

- Maintain baseline security and participate in VAPT drills etc.
- Conduct periodic BCP drills
- Maintain video streaming and storage solutions
- Integrate with open source databases and platforms like Fineract.
- To carry out any other responsibilities assigned by the Institute.

iii. **Eligibility:**

(a) Educational Qualifications

- First class regular ME/MTech/B.E/B.Tech./MCA or above from a recognized University with a consistently good academic record throughout.

(b) Experience

A minimum of three years post-qualification experience in industrial project development in the areas of:

- Cloud, Full stack, Test automation, Security, Video streaming and storage

(c) Desired Skills

- Android application development and testing
- Multi-tier application logic development and testing
- DevSecOps
- Open-stack cloud, Docker, Kubernetes – setup and administration
- VAPT, BCP
- MongoDB / MariaDB / Cassandra etc.
- Experience with VLC, Jitsi
- Jira / Jenkins and related tools for CI/CD/CT
- Familiarity with micro services, logs, analytics etc.
- To carry out any other responsibilities assigned by the Institute.

(d) Reservation

- One position is reserved for Schedule Caste candidate, one position is reserved for Schedule Tribe Candidate and two positions are reserved for OBC (Non-Creamy Layer) candidates and three positions are for General candidates

iv. **Term:** One year. Extendable based on the duration of the project, project requirements, performance of the candidate and fund availability.

v. **Compensation:** All-inclusive consolidated compensation of upto Rs One Lakh per month.

Position IV: Technical Support Engineer

i. **No. of Positions:** One

ii. **Primary Responsibilities:**

   o Installing and patching firmware, OS and applications (hardware and software) -
      - Linux, MS Windows, hypervisor, KVM with open source Technologies
   o Manage network servers and technology tools.
   o Set up accounts and workstations.
   o Monitor performance and maintain systems according to requirements.
   o Troubleshoot issues and outages.
   o Ensure security through access controls
   o Database administration covering Backup and disaster recovery planning
   o Documentation of project related work.
   o Network and Security L1 administration
   o Server hardening and Syslog server management
   o Open source Monitoring tools Administration.
   o To carry out any other responsibilities assigned by the Institute.

iii. **Eligibility:**

   (a) Educational Qualifications

   - First class regular ME/MTech/B.E/B.Tech./MCA or above from a
     recognized University with a consistently good academic record throughout

   (b) Experience

   - A minimum of three years' experience in technical support

   (c) Desired Skills

   - L2 Windows, Linux and Open Source Technologies Administration like
     Openstack and Ubuntu
   - Knowledge and understanding on Network and Security concepts, database
     software

iv. **Term:** One year. Extendable based on the duration of the project, project
    requirements, performance of the candidate and fund availability.

v. **Compensation:** All-inclusive consolidated compensation upto Rs. 45,000/-
    (Rupees Forty Five Thousand only) per month.

Position V: Project Technical Assistant

i. **No. of Positions:** Two

ii. **Primary Responsibilities:**

   - Platform development for audio-visual data collection and annotation
   - Speech / Textual Corpus preparation under Multilingual settings
   - To carry out any other responsibilities assigned by the Institute.

iii.   **Eligibility:**

(a) Educational Qualifications

- First class regular ME/MTech/B.E/B.Tech./MCA or above from a recognized University with a consistently good academic record throughout

(b) Experience

A minimum of one year of experience for BTech and project-related experience for M.E. / M.Tech. in:

- Platform development for audio-visual data collection and annotation
- Speech / Textual Corpus preparation under Multilingual settings

(c) Desired Skills

- Python, Java, NodeJS

iv.   **Term:** One year. Extendable based on the duration of the project, project requirements, performance of the candidate and fund availability.

v.   **Compensation:** All-inclusive consolidated compensation upto Rs. 30,000/- (Rupees Thirty Thousand only) per month.

Position VI – Project Administrative Assistant

i.   **No. of Positions:** One

ii.   **Primary Responsibilities:**
- ❖ To assist in preparation of communications such as memos, reports, invoices and others.
- ❖ To communicate with other departments for any information needed for the work assigned, if necessary.
- ❖ To develop and maintain an appropriate filing system.
- ❖ To provide efficient and effective administrative and accounting support for the Project
- ❖ To carry out any other responsibilities assigned by the Institute.

iii.   **Eligibility:**

(a) Educational Qualifications

- ❖ First-class MBA in Project Management /Marketing /Finance or any other directly related streams from a recognised Institute with a consistently good academic record throughout.
- ❖ Outstanding oral and written communication skills in English.
- ❖ MS Office (MS Word, MS Excel, MS Power-point and MS Access)

(b) Technical Skills
- ❖ Knowledge of Shorthand and Typewriting

(c) Experience
- ❖ Candidates should have a minimum of one year of post-qualification experience in writing, drafting and editing IT technical texts such as project reports, with high level of competence in writing and developing technical content, and ability to draft reports.

(d) Desired Skills
- ❖ Ability to plan work, take initiative and meet deadlines
- ❖ Ability to manage pressure and conflicting demands, and prioritise tasks and workload
- ❖ Presentation skills and attention to detail
- ❖ Able to work in team
- ❖ Project-management skills

iv. **Age:** Below 26 years as on March 31, 2022

v. **Term:** One year. Extendable based on the duration of the project, project requirements, performance of the candidate and fund availability.

vi. **Compensation:** All-inclusive consolidated compensation of Rs. 27,000/- pm.

Rules and Regulations for all these positions

1. All the above positions are purely temporary and on a contract basis under the project mode.

2. There is no scope whatsoever for further continuation, extension of term, absorption, regularisation, permanency, in the Institute under any circumstances

3. Higher compensation may be considered for exceptionally deserving candidates.

4. All educational qualifications must have been necessarily obtained by pursuing the courses on a full-time regular basis from recognised universities/institutions. If grades are awarded instead of marks, candidates should clearly indicate their numerical equivalent.

5. Relevant experience gained after the qualifying degree will only be taken into consideration.

6. Candidates should satisfy themselves about their eligibility for the position being applied for. Mere fulfilment of eligibility does not guarantee shortlisting for Selection Process.

7. Candidates should apply for the specific positions only in the format provided on the Institute's website.

8. Incomplete applications / not in the prescribed format / without all the required documents, will be rejected and no correspondence will be entertained by the Institute.

9. Candidates for these positions should enclose attested scanned copies of their Mark sheets and Certificates right from Matriculation onwards.

10. The candidature will be considered on the strength of the information declared in the Application. If at any stage, it is found that any information furnished is false / incorrect, the candidate has clandestine antecedents/background or if according to the Institute, the

candidate does not satisfy the eligibility criteria, her/his candidature / appointment is liable to be cancelled / terminated at any point in time including after appointment, in addition to any disciplinary action as may be necessary.

11. In case of any inadvertent mistake in the process of selection which may be detected at any stage even after the issue of appointment letter, the Institute reserves the right to modify / withdraw / cancel any communication made to the candidates.

12. The Institute reserves the rights to screen and call only such candidates as are found prima-facie suitable for being considered

13. The Institute also reserves the right to restrict the candidates called for to the selection process to a reasonable number on the basis of qualifications, level and relevance of experience higher than the minimum prescribed herein and the requirements of the Institute. Thus just fulfilling the prescribed conditions would not entitle one to be called for the Selection Process. The Institute also reserves the right of rejecting any or all the applications without assigning any reasons therefore.

14. The Institute reserves the right to fill or not to fill any or all the positions advertised without assigning any reason.

15. In all matters regarding Eligibility, Qualification, Skills, Experience, Compensation, Contract Term, Selection Process, Assessment, Prescribing Minimum Qualifying Standards in Selection Process, and Communication of Result, the Institute's decision shall be final and binding on all the candidates and no correspondence shall be entertained in this regard.

16. Only shortlisted applicants will be contacted. No correspondence will be entertained from candidates regarding postal delays, conduct & result of selection process and reasons for not being called for the selection process.

17. Selected candidates should undertake to abide by all the rules and regulations pertaining to their retention as also the rules and regulations of the Institute.

18. The crucial date for determining the eligibility criteria for all candidates in every respect is the prescribed closing date for submission of application.

19. Interested candidates may forward a Covering Letter and Filled-in Application along with the copies / scanned copies of all the required documents to "The Human Resources Department, IDRBT, Castle Hills, Road No.1, Masab Tank, Hyderabad – 57" or by e-mail to vkycproject@idrbt.ac.in so as to reach the Institute latest by **April 25, 2022.**

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