

No. KUDSIT/749/REC/2023

Technocity, Dated 22.11.2023

**NOTIFICATION**

Kerala University of Digital Sciences, Innovation and Technology invites applications from qualified Indian Citizens for appointment to the following posts (on a contract basis for 1 year , extendable based on the performance/project requirement) under the Centre for Intelligent Government funded by the State Planning Board. Candidates shall apply online through the Recruitment Portal. The guidelines for submission of application are available in the portal.

**DETAILS OF POST, QUALIFICATION, EXPERIENCE ETC. REQUIRED**

**I.(a) Technical/Solution Architect**

<p><b>Job Code:</b> <b>TSA/112023/749</b></p> <p><b>Name of Post:</b> <b>Technical/Solution Architect</b></p> <p><b>Number of Vacancies:</b> 1</p>	<p><b>Essential Qualification:</b> B-Tech/BE/M-Tech/MSc in Information Technology or Computer Science/ MCA from a recognized Institution/ University</p> <p><b>Essential Experience:</b></p> <ul style="list-style-type: none"> <li>• Minimum of two years relevant experience as a Technical/Solution Architect in a reputed software industry /organization with a total experience of over 10 years in IT Industry</li> <li>• Proven track record/ hands-on experience in working with various AI techniques such as Deep Learning, Machine Learning, Natural Language Processing, etc.</li> </ul> <p><b>Desirable Experience:</b></p> <ul style="list-style-type: none"> <li>• Proficiency in one or more programming languages such as Python, Java, JavaScript or any other AI development programming language.</li> <li>• Proven track record of successfully architecting and delivering complex, scalable solutions using AI technologies.</li> <li>• Previous experience leading a team of developers or data scientists and providing technical guidance and mentorship.</li> <li>• Experience in Industry 4.0 solutions, leading implementation of ERP projects, Business Process Reengineering /Government projects, etc.</li> </ul> <p><b>Desirable Skillsets</b></p> <ul style="list-style-type: none"> <li>• Knowledge of SQL and NoSQL such as MySQL/PostgreSQL/Elasticsearch/Mongo DB/Couchbase, knowledge in key value stores, graph databases, RDF</li> </ul>
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triple stores.

- Programming experience with analytical tools and languages like Python (Mandatory), Java, or any other language for ML & DL.
- Familiarity with popular AI frameworks and libraries, such as TensorFlow, PyTorch, scikit-learn, etc.
- Extensive knowledge in design, creation and consumption of RESTful API, Data Structure, Algorithms and Ability to develop efficient solutions.
- Strong Knowledge in MLOps, ML Pipelines, HyperParameter Tuning, RBDMS, NoSql, Statistical Analysis, Julia, BERT, LSTM, LayoutLM.
- Ability to perform high-level work both independently and collaboratively as a project member or leader on multiple projects.
- Strong analytical and problem-solving skills, with the ability to break down complex challenges and propose innovative solutions.
- Excellent verbal and written communication skills, with the ability to convey technical concepts to both technical and non-technical stakeholders.
- A self-driven and adaptable mindset, willing to learn new technologies and explore novel approaches to address project requirements.
- Understanding of AI trends, industry best practices, and a keen interest in applying AI to real-world challenges.

**Job Function:**

- Develop solutions for various Projects using AI and ML
- Study legacy system/ existing system architecture, identify gaps, propose changes to the architecture if needed and design an optimal solution based on latest technologies

**Job Requirements:**

- Lead the end-to-end design and architecture of AI-powered Enterprise systems, considering both functional and non-functional requirements.
- Identify, evaluate and Implement the most suitable AI technologies, frameworks, and libraries that align with project requirements and industry best practices.
- Collaborate with Data Scientists and AI engineers to design, develop, and deploy AI models that drive the automated system's core functionalities.
- Define strategies for integrating AI capabilities seamlessly into existing systems or applications while ensuring interoperability and data flow.



	<ul style="list-style-type: none"> <li>• Provide guidance and mentorship to the development team, ensuring adherence to architectural standards, best practices, and overall technical excellence.</li> <li>• Work closely with cross-functional teams, including data scientists, software engineers, product managers, and stakeholders, to align technical decisions with project goals.</li> <li>• Create prototypes and proof-of-concept implementations to validate architectural approaches and explore new AI techniques.</li> <li>• Prepare and maintain comprehensive technical documentation such as Solution Architecture Documents, System Architecture diagrams, Design decisions, and guidelines.</li> </ul> <p><b>Remuneration:</b> Rs. 1,70,000 - 2,00,000/- per month</p> <p><b>Age:</b> Should not exceed 45 Years as on the last date fixed for the submission of application</p>
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**I (b).Senior Consultant/ Project Lead (AI)**

<p><b>Job Code:</b> <b>PLAI/112023/749</b></p> <p><b>Name of Post:</b> <b>Senior Consultant/ Project Lead (AI)</b></p> <p><b>Number of Vacancies:</b> 1</p>	<p><b>Essential Qualification:</b> B Tech / BE /M Tech/ MSc/ MCA from a recognized Institution/ University</p> <p><b>Essential Experience:</b></p> <ul style="list-style-type: none"> <li>• Minimum of three years relevant experience as a Project Lead in AI domain in a reputed software industry /organization, with a total experience of over 7 years in IT Industry</li> <li>• Previous experience leading a team of AI/ML developers or data scientists and providing technical guidance and mentorship.</li> </ul> <p><b>Desirable Experience:</b></p> <ul style="list-style-type: none"> <li>• Experience in Industry 4.0 solutions, leading implementation of ERP projects, Business Process Reengineering /Government projects, etc. PMP/PRINCE2/PMI-ACP Certification will be an added advantage</li> </ul> <p><b>Desirable Skillset:</b></p> <ul style="list-style-type: none"> <li>• Minimum of three years' experience in Python Programming</li> <li>• Minimum of three years' experience in AI frameworks and libraries, such as TensorFlow, PyTorch, scikit-learn, Pandas, etc.</li> <li>• Proven experience in project management and the ability to lead project teams of various sizes</li> <li>• Strong understanding of formal project management methodologies.</li> <li>• Strong analytical skills to solve and model complex business</li> </ul>
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	<p>requirements</p> <ul style="list-style-type: none"> <li>• Critical and Out of the box thinking</li> <li>• Risk Management, Time Management and Scheduling Skills</li> <li>• Experience in technologies like Deep Learning, NLP, Image Processing.</li> <li>• Familiarity with cloud-based services such as Azure, GCP and AWS</li> <li>• Ability to create efficient solutions to complex problems</li> <li>• Strong skills in data structures and ML algorithms.</li> <li>• Intermediate to advanced knowledge of machine learning, probability theory, statistics, and algorithms.</li> <li>• Excellent communication skills (must be able to interface with both technical and business leaders in the organization).</li> </ul> <p><b>Job Function:</b></p> <ul style="list-style-type: none"> <li>• Lead and manage the project team</li> <li>• Understand the business problems, Mapping business problems to suitable AI/ML Solutions.</li> </ul> <p><b>Job Description:</b></p> <ul style="list-style-type: none"> <li>• Identifying and developing new opportunities with clients.</li> <li>• Provide guidance and solution to AI/ML Development Team</li> <li>• Code Review and Validation</li> <li>• Lead the team to design and build Machine Learning, Deep Learning and NLP infrastructure, models and applications to generate scalable and high-performance solutions.</li> </ul> <p><b>Remuneration:</b> 80,000- 1,00,000 per month per month (consolidated)</p> <p><b>Age:</b> Should not exceed 45 Years as on the last date fixed for the submission of application</p>
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**I.(c) AI Developer**

<p><b>Job Code:</b> <b>AID/112023/749</b></p> <p><b>Name of Post:</b></p>	<p><b>Essential Qualification:</b> B-Tech/BE/M-Tech/MSc in Information Technology or Computer Science/ MCA from a recognized Institution/ University</p> <p><b>Essential Experience:</b></p> <ul style="list-style-type: none"> <li>• Bachelor's or Master's degree in Computer Science, Machine Learning, Artificial Intelligence, or a related field.</li> <li>• Proven experience of 3 years in developing and deploying AI/ML models in real-world applications.</li> <li>• Strong programming skills in Python, including familiarity with popular ML libraries (e.g., TensorFlow, PyTorch, scikit-learn).</li> </ul>
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## AI Developer

**Number of Vacancies:** 2

### **Desirable Experience:**

- Experience in working with large-scale data sets and distributed computing framework
- Previous work on natural language processing, Data Science.

### **Desirable Skillset:**

- Strong analytical and problem-solving skills, capable of designing and executing experiments to evaluate AI model performance.
- Proficiency in machine learning algorithms and deep learning architectures.
- Expertise in coding best practices such as unit testing and code optimisation.
- Experience deploying artificial intelligence models in production situations.
- Strong communication and presentation abilities are required to communicate difficult technological concepts.

### **Job Function:**

- Collaborate with cross-functional teams to explore and develop AI opportunities.
- Create, test, and deploy cutting-edge AI/ML models for a variety of applications.
- Conduct research to keep current on AI and machine learning breakthroughs.
- Models should be optimised and fine-tuned for performance, scalability, and dependability.
- AI solutions should be documented and communicated to both technical and non-technical stakeholders.

### **Job Requirements:**

- Work closely with cross-functional teams, including data scientists, software engineers, product managers, and stakeholders, to align technical decisions with project goals.
- Create prototypes and proof-of-concept implementations to validate architectural approaches and explore new AI techniques.
- Prepare and maintain comprehensive technical documentation, including system architecture diagrams, design decisions, and guidelines.
- Oversee the implementation and deployment of AI solutions, working closely with development teams to ensure adherence to best practises, quality standards, and performance requirements. During the implementation phase, provide technical direction and support.
- Monitor and optimise the performance of AI solutions,



	<p>including foundation models and large language models, on a continuous basis. Find ways to improve efficiency, accuracy, and speed by fine-tuning, algorithmic advancements, or infrastructure optimisation.</p> <ul style="list-style-type: none"> <li>• Keep up with the newest developments and trends in AI, foundation models, and large language models. Assess the possible influence of emerging technologies, tools, and frameworks on solution design and implementation.</li> </ul> <p><b>Remuneration:</b> Rs. 70,000 - 90,000 per month</p> <p><b>Age:</b> Should not exceed 35 Years as on the last date fixed for the submission of application</p>
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#### I.(d) Research Associate

<p><b>Job Code:</b> <b>RA/112023/749</b></p> <p><b>Name of Post:</b> <b>Research Associate</b></p> <p><b>Number of Vacancies:</b> 1</p>	<p><b>Essential Qualification:</b> MTech Computer Science/MTech IT /MTech Electronics/MSc Computer Science/MCA from a recognized University/Educational Institution.</p> <p><b>Essential Experience:</b> Minimum 3 years' experience in relevant experience in AI/ML based Projects, Adequate Knowledge in Time series, LSTM, RNN etc., in an Academic/Research Institution or Industry.</p> <p><b>Desirable Skillset:</b></p> <ul style="list-style-type: none"> <li>• A basic understanding of Linux is desirable.</li> <li>• Good written &amp; communication skills.</li> <li>• The candidate should have good knowledge of Machine learning and Python.</li> </ul> <p><b>Job Function:</b></p> <ul style="list-style-type: none"> <li>• Perform research and development activities in the Judiciary domain using AI and ML based technologies</li> </ul> <p><b>Remuneration:</b>Rs. 40,000- Rs. 50,000/- Consolidated per month</p> <p><b>Age:</b> Should not exceed 35 Years as on the last date fixed for the submission of application</p>
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#### I.(e) Project Associate (e-Governance)

<p><b>Job Code:</b> <b>PAeG/112023/749</b></p> <p><b>Name of Post:</b></p>	<p><b>Essential Qualification:</b> B-Tech/BE/MSc in Information Technology or Computer Science/MBA/MCA from a recognized Institution/ University</p> <p><b>Essential Experience:</b> Minimum of three years' experience in e-Governance / socio-economic projects in one of the following areas</p> <p>Developing case studies in e-Governance/Impact analysis of e-Governance / socio-economic projects/System Study, Govt. Process Reengineering, Requirement Analysis/Coordinating Capacity Building Programs/Experience in projects including Consulting/Requirement Study.</p>
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<p><b>Project Associate (e-Governance)</b></p> <p><b>Number of Vacancies: 1</b></p>	<p><b>Desirable Experience:</b></p> <ul style="list-style-type: none"> <li>• Implementation of Industry 4.0 solutions</li> <li>• Project Plan Creation and Schedule Management</li> </ul> <p><b>Desirable Skillset:</b></p> <ul style="list-style-type: none"> <li>• Should have Strong knowledge of Office Tools such as creation of PowerPoint presentations, Process Flow Diagrams/Flow charts, etc.</li> <li>• Content Creation for events and programs</li> <li>• Excellent Documentation Skills</li> <li>• Excellent Planning &amp; Coordination Skills</li> <li>• Should work with minimum supervision</li> <li>• Self-motivated and self-driven</li> <li>• Should have problem solving, prioritizing tasks, multitasking abilities</li> <li>• Should be able to work to deadlines and should be flexible to work on any assigned task</li> </ul> <p><b>Job Function:</b></p> <ul style="list-style-type: none"> <li>• Coordinate training programs and events in e-Governance</li> <li>• Assist Project Manager/ Business Analyst to conduct system study for Government projects.</li> <li>• Assist in Financial and Administrative aspects of various Government funded projects/trainings</li> </ul> <p><b>Job Description:</b></p> <p>Responsibilities include, but not limited to Management of</p> <ul style="list-style-type: none"> <li>• Logistics, training infrastructure, communication, networks, and materials</li> <li>• Arranging travel and accommodation for all including resource persons and participants</li> <li>• Arrange additional facilities like labs, etc. as part of the training</li> </ul> <p><b>Remuneration:</b> 40,000- 45,000/- per month (consolidated)</p> <p><b>Age:</b> Should not exceed 35 Years as on the last date fixed for the submission of application</p>
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**Age relaxation for submission of application:**

5 years for candidates belonging to SC/ ST and 3 years for OBC candidates.

**Mode of Selection:**

The selection will be based on an test and/or Interview

**Venue of Test/Interview:**

The Test /Interview will be conducted in Thiruvananthapuram



district only.

### **General Instructions**

1. Scanned copy of the documents to prove age, qualifications, experience, etc. should be uploaded along with online application and originals to be produced as and when called for. Applications without attaching the above documents shall be summarily rejected. No further chance will be given for submitting the same.
2. Candidates, who are in the service of the Government of India or any of the State Governments, etc. while applying, should obtain a No Objection Certificate from their Head of Office or Department and keep it with them. If candidates fail to produce the No Objection Certificate as and when called for, his/her candidature will stand canceled.
3. Candidates should ensure that the particulars furnished by him/her are correct in all respects. Anything not specifically claimed in the application against the appropriate field will not be considered at a later stage. No deviation whatsoever from the filled in data will be entertained. In case it is detected at any stage of the recruitment that a candidate does not fulfill the eligibility norms and /or that he/she furnished any incorrect/false information or has suppressed any material fact, his/her candidature will stand cancelled. If suppression of material facts or furnishing of any incorrect/false information is detected even after appointment, his/her service is liable to be terminated
4. Applications submitted without fulfilling the eligibility and other norms mentioned in this Notification as well as the instructions published in the Recruitment Portal of the University will be summarily rejected.
5. In case any discrepancy/ambiguity in the process of selection , the decision of the University shall be final and binding.
6. Consequent up on adoption of self- certification provisions, the University shall process the applications entirely on the basis of the information /documents provided with the application. The selection/ appointment will be provisional and subject to physical verification of the documents.
7. Applications submitted without fulfilling the eligibility and other norms mentioned in this notification as well as the instructions published in the recruitment portal of the University will be summarily rejected.
8. Canvassing in any form will entail the cancellation of candidature.

### **How to Apply:**

1. Applications shall be submitted online latest on 7.12.2023. The application form is available at <https://www.duk.ac.in/careers>.
2. The application fee for the posts shall be Rs. 200/- (Fee will be exempted for SC/ST/Differently-abled Candidate). The mode of payment is available in the recruitment portal.
3. The applications received after the last date fixed or the incomplete applications or the applications without filling the relevant field will be summarily rejected.
4. No interim queries after the submission of the application will be entertained. The candidates will be intimated the schedule of the Test/ Interview through their registered email only.
5. The candidates are advised to check their registered e-mails regularly after the last date fixed for the submission of the application.





6. The University has the right to cancel the advertisement or entire selection process at any stage without assigning reason thereof and the decision of the University shall be final.

## **Registrar**

\* This is a computer system (Digital File) generated letter. Hence there is no need for a physical signature.

