

No. KUDSIT/512/AD AIV/2024

Technocity, Dated 16.01.2025

### **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 the Data Engineering and Analytics projects of the University. Candidates shall apply online through the Recruitment Portal. The guidelines for submission of applications are available in the recruitment portal.

#### **DETAILS OF POST, QUALIFICATION, EXPERIENCE ETC. REQUIRE.**

##### **I. Sr. Software Engineer (Java)**

Job Code	: SSEJ/12025/512
Name of post	: Sr. Software Engineer (Java)
No. of Vacancies	: 02 nos.
Remuneration	: Rs.40,000 – 60,000 consolidated per month
Age:	: Should not exceed 35 as of the last date for submission of application.
Essential Educational Qualification	MCA or B-Tech/BE/M-Tech/MSc
Essential Experience	Minimum 3 years of experience in software development
Required Skills	<ul style="list-style-type: none"> <li>• 2+ years of experience in web application development in Java with Spring frameworks</li> <li>• Strong knowledge of scripting languages like JQuery, JavaScript/ TypeScript, and creating web pages using HTML5, CSS3, and Bootstrap.</li> <li>• Knowledge of frameworks like Angular, React, Spring, Hibernate</li> <li>• Strong design and programming skills using JSON, Web Services, XML, XSLT, and PL/SQL in Unix and Windows environments.</li> <li>• Strong background working with Linux/UNIX environments.</li> <li>• Good knowledge of PostgreSQL, MySQL, SQL Server and/or DB2 databases</li> </ul>



	<ul style="list-style-type: none"> <li>• Experience working with tools like Git, Maven, JFrog, UDeploy.</li> <li>• Expertise in developing enterprise-level web applications and RESTful APIs using micro-service architecture, with demonstrable production-scale experience.</li> <li>• Familiarity with software version control, bug tracking software and document management systems (SVN, GitHub, Jira, TFS, etc.).</li> <li>• Should have strong agile/scrum development experience.</li> <li>• Strong analytical and communication skills within distributed project teams are required.</li> <li>• Passion for staying on top of the latest happenings in the tech world and an attitude to discuss and bring those into play.</li> <li>• Understanding of cloud technologies and deployment (e.g., AWS, Azure, Google Cloud).</li> </ul>
<p>Desired Skills</p>	<ul style="list-style-type: none"> <li>• Development experience in .Net technologies (ASP.NET, .Net Core)</li> <li>• Knowledge of NoSQL platforms (ElasticSearch/MongoDB/CouchBase)</li> <li>• Experience in unit testing frameworks like X unit, N unit.</li> <li>• Knowledge of SOLID Principles, and Design patterns.</li> </ul>
<p>Responsibilities:</p>	<ul style="list-style-type: none"> <li>• Must be responsible for developing, supporting, maintaining, and implementing a complex project module.</li> <li>• Must be responsible for building a reusable component and translating design wireframes into high-quality code.</li> <li>• Should take ownership of the task assigned and should ensure that proper coding standards are followed during development.</li> <li>• Analyzing data to effectively coordinate the installation of new systems or the modification of existing systems.</li> <li>• Managing the software development life-cycle and Monitoring system performance.</li> <li>• Communicating key project data to team members and building cohesion among teams</li> </ul>
<p>Nature of Appointment</p>	<p>On contract basis for 1 year and the term may be extended for a further period of two years on satisfactory performance and the project requirements.</p>



## II. Junior Software Engineer (Java)

Job Code	: JSE/12025/512
Name of post	: Junior Software Engineer (Java)
No. of Vacancies	: 01 no.
Remuneration	: Rs.25,000 – 35,000 consolidated per month
Age:	: Should not exceed 30 as of the last date for submission of application.
Essential Educational Qualification	MCA or B-Tech/BE/M-Tech/MSc
Essential Experience	Minimum one year of industry experience in software development with Java and Spring/Spring Boot
Required Skills	<ul style="list-style-type: none"> <li>• At least one year of industry experience as a Web developer.</li> <li>• Solid understanding of object-oriented programming principles</li> <li>• Familiarity with Java web frameworks like Spring, Spring Boot, or any other MVC framework.</li> <li>• Knowledge of web development technologies such as HTML, CSS, JavaScript, and related frameworks.</li> <li>• Experience with relational databases and SQL</li> <li>• Experience with version control systems like Git.</li> <li>• Understanding of software development life-cycle and agile methodologies.</li> </ul>
Desired Skills	<ul style="list-style-type: none"> <li>• Familiarity with front-end frameworks like Angular or React.</li> <li>• Knowledge of web services and RESTful API development.</li> <li>• Understanding of Micro-services architecture</li> <li>• Knowledge of JSON, Web Services, XML, JSON, PL/SQL</li> <li>• Knowledge of No-SQL platforms (Elasticsearch/MongoDB/CouchBase)</li> </ul>
Responsibilities	<ul style="list-style-type: none"> <li>• Work closely with senior developers to design, develop, and maintain web applications using Java technologies.</li> <li>• Develop web-based applications, including user interfaces, business logic, and database integration.</li> <li>• Perform unit testing to ensure code quality and identify any bugs or issues.</li> <li>• Assisting the development manager with all aspects of software design and coding.</li> </ul>



	<ul style="list-style-type: none"> <li>• Attending and contributing to company development meetings.</li> <li>• Learning the code-base and improving your coding skills.</li> <li>• Writing and maintaining code</li> <li>• Working on minor bug fixes.</li> <li>• Monitoring the technical performance of internal systems.</li> </ul>
Nature of Appointment	On contract basis for 1 Year. However, the term may be extended further based on the performance and project requirements.

### III. QA Analyst

Job Code	: QAA/12025/512
Name of post	: QA Analyst
No. of Vacancies	: 01 no.
Remuneration	: Rs.30,000 – 45,000 consolidated per month
Age:	: Should not exceed 35 as of the last date for submission of application.
Essential Educational Qualification	M-Tech/MSc in IT/CS/Data Analytics
Essential Experience	3 years or above
Required Skills	Strong analytical and problem-solving skills; Functional/Manual Testing with APIs, Bigdata Systems, Web Applications, and Mobile Applications; SQL Queries; reviewing test case results and anchor defects prevention activities.
Desired Skills	Selenium Automation Testing, Java Programming Skills
Responsibilities	<ul style="list-style-type: none"> <li>• Excellent knowledge of software test practices, especially for Web and Mobile-based Applications.</li> <li>• Ability to extract &amp; design test plans from user requirements.</li> <li>• Familiarity with software version control, bug tracking software, and document management systems (GitHub, Jira, etc.).</li> <li>• Experience with unit testing and mocking frameworks.</li> <li>• Test coverage tool use and deployment/set up experience.</li> <li>• Design and implementation of automated and manual tests, as appropriate, to cover Module, sub-system, and system-level testing.</li> <li>• Develop the automated tests, API tests, and load tests using tools such as Selenium Web driver, JMeter, etc.</li> </ul>



	<ul style="list-style-type: none"> <li>• Create and execute Test cases.</li> <li>• Must have experience in Manual Testing.</li> <li>• Proficiency in Black / white box testing.</li> </ul>
Nature of Appointment	On contract basis for 1 Year. However, the term may be extended further based on the performance and project requirements.

#### IV. Software Engineer (Intern)

Job Code	: SEI/12025/512
Name of post	: Software Engineer (Intern)
No. of Vacancies	: 01 no.
Remuneration	: Rs.15,000 – 25,000 consolidated per month
Age:	: Should not exceed 25 as of the last date for submission of application.
Essential Educational Qualification	MCA or B-Tech/BE/M-Tech in IT/CS
Essential Experience	3 months or above experience in JAVA or .Net (3 months internship experience with relevant technologies also considered as an experience)
Required Skills	<ul style="list-style-type: none"> <li>• Competence in one or more commonly used programming languages like Java, Python, JavaScript, or C#</li> <li>• Proficiency in software development principles and methodologies.</li> <li>• Proficient knowledge of object-oriented programming concepts and principles.</li> <li>• Basic knowledge of web development concepts/technologies, including HTML, CSS, and JavaScript.</li> <li>• Familiarity with IDEs like IntelliJ IDEA, Eclipse, and Visual Studio</li> <li>• Strong problem-solving and analytical skills.</li> <li>• Good communication and teamwork skills.</li> <li>• Eagerness to learn and adapt to new technologies, frameworks, and best practices</li> </ul>



Desired Skills	<ul style="list-style-type: none"> <li>• Knowledge of web development technologies/framework/tools (Java or .Net)</li> <li>• Familiarity with software development tools such as IDEs, version control systems, and bug tracking systems.</li> <li>• Knowledge of web development technologies such as HTML, CSS, and JavaScript.</li> <li>• Experience with any programming frameworks or libraries.</li> <li>• Understanding of database concepts and SQL.</li> <li>• Familiarity with Agile/Scrum methodologies.</li> </ul>
Responsibilities	<ul style="list-style-type: none"> <li>• Work closely with senior developers to design, develop, and maintain web applications using Java technologies.</li> <li>• Assist in designing, coding, testing, and debugging software applications.</li> <li>• Contribute to the development of new features and enhancements to existing software systems.</li> <li>• Write clean, efficient, and well-documented code following coding standards and best practices.</li> </ul>
Nature of Appointment	On contract basis for 1 Year. However, the term may be extended further based on the performance and project requirements.

### V. Data Engineer (Python)

Job Code	: DEP/12025/512
Name of post	: Data Engineer (Python)
No. of Vacancies	: 02 nos.
Remuneration	: Rs.30,000 – 45,000 consolidated per month
Age:	: Should not exceed 30 as of the last date for submission of application.
Essential Educational Qualification	M-Tech/M.Sc (in IT/CS/Data Analytics) from a recognized University/Educational Institution
Essential Experience	Minimum six months of industry experience as a Python Programmer/Engineer/Developer/Data Analyst/Data Engineer (intern); relevant academic internship experience in data analytics with ML/DL is also considered.
Required Skills	<ul style="list-style-type: none"> <li>• Strong command in Python language.</li> <li>• Familiarity with data analysis libraries and frameworks like</li> </ul>



	<p>Pandas, NumPy, or SciPy.</p> <ul style="list-style-type: none"> <li>• Strong interest in statistics and problem-solving.</li> <li>• Experience with SQL/NoSQL for data querying, manipulation, and integration.</li> <li>• Solid knowledge of OOP principles and design patterns</li> <li>• Familiarity with software version control, bug tracking software, and document management systems (SVN, GitHub, Jira, TFS, etc.).</li> </ul>
Desired Skills	<ul style="list-style-type: none"> <li>• Experience with big data technologies and frameworks (e.g., Hadoop, Spark) for processing and analyzing large-scale datasets.</li> <li>• Knowledge of natural language processing (NLP) techniques and text mining.</li> <li>• Understanding of cloud-based data storage and analysis platforms (e.g., AWS, Azure, Google Cloud).</li> <li>• Familiarity with popular Python frameworks/libraries such as Django (for web development), Flask , or NumPy and pandas (for data analysis), FastAPI etc</li> <li>• Knowledge of web technologies like HTML, CSS, JavaScript</li> <li>• Understanding of Machine Learning (supervised and unsupervised learning, regression, classification, clustering etc.) and Deep Learning (TensorFlow, PyTorch etc) concepts.</li> <li>• Knowledge of NoSQL platforms (ElasticSearch/MongoDB/CouchBase)</li> </ul>
Nature of Appointment	On contract basis for 1 year and the term may be extended for a further period of two years on satisfactory performance and the project requirements.

### VI. Junior Data Engineer (Python)

Job Code	: JDEP/12025/512
Name of post	: Junior Data Engineer (Python)
No. of Vacancies	: 01 no.
Remuneration	: Rs.20,000 – 35,000 consolidated per month
Age:	: Should not exceed 30 as of the last date for submission of application.
Essential Educational Qualification	M-Tech/B-Tech/M.Sc (in IT/CS/Data Analytics) from a recognized University/Educational Institution



Essential Experience	Minimum 3 months of relevant industry experience in Python and machine learning technologies (internship on live Data Analytics Projects will also be considered as experience)
Required Skills	<ul style="list-style-type: none"> <li>• Strong command in Python language.</li> <li>• Familiarity with data analysis libraries and frameworks like Pandas, NumPy, or SciPy.</li> <li>• Strong interest in statistics and problem-solving.</li> <li>• Experience with SQL/NoSQL for data querying, manipulation, and integration.</li> <li>• Solid knowledge of OOP principles and design patterns</li> <li>• Familiarity with software version control, bug tracking software, and document management systems (SVN, GitHub, Jira, TFS, etc.).</li> </ul>
Desired Skills	<ul style="list-style-type: none"> <li>• Experience with big data technologies and frameworks (e.g., Hadoop, Spark) for processing and analyzing large-scale datasets.</li> <li>• Knowledge of natural language processing (NLP) techniques and text mining.</li> <li>• Understanding of cloud-based data storage and analysis platforms (e.g., AWS, Azure, Google Cloud).</li> <li>• Familiarity with popular Python frameworks/libraries such as Django (for web development), Flask , or NumPy and pandas (for data analysis), FastAPI etc</li> <li>• Knowledge of web technologies like HTML, CSS, JavaScript</li> <li>• Understanding of Machine Learning (supervised and unsupervised learning, regression, classification, clustering etc.) and Deep Learning (TensorFlow, PyTorch etc) concepts.</li> <li>• Knowledge of NoSQL platforms (ElasticSearch/MongoDB/CouchBase)</li> </ul>
Nature of Appointment	On contract basis for 1 Year. However, the term may be extended further based on the performance and project requirements.

**VII. Software Engineer (.Net)**

Job Code	: SEN/12025/512
Name of post	: Software Engineer (.Net)
No. of Vacancies	: 02 nos.
Remuneration	: Rs.30,000 – 50,000 consolidated per month
Age:	: Should not exceed 35 as of the last date for submission of





	application.
Essential Educational Qualification	MCA or B-Tech/BE/M.Tech
Essential Experience	Minimum 2 years of experience in software development.
Required Skills	<ul style="list-style-type: none"> <li>• 2 or more years of experience in web application development using Asp.net with C#.</li> <li>• Minimum 3 years of proven industry experience as a Web developer</li> <li>• Hands-on coding experience in web application development using C#.NET MVC, Web API, .NET Core 3+ technologies</li> <li>• Should have strong knowledge in scripting languages like J Query, JavaScript/ TypeScript, and creating web pages using HTML 5, CSS3, Bootstrap.</li> <li>• Working knowledge in PostgreSQL, MySQL/Maria DB, or Mongo DB databases.</li> <li>• Expertise in developing enterprise-level web applications and RESTful APIs using micro-service architecture, with demonstrable production-scale experience.</li> <li>• Familiarity with software version control, bug tracking software, and document management systems (SVN, GitHub, Jira, TFS,etc.).</li> <li>• Should have strong agile/scrum development experience</li> <li>• Should have strong analytical and communication skills within distributed project teams.</li> <li>• Understanding of cloud technologies and deployment (e.g., AWS, Azure, Google Cloud).</li> </ul>
Desired Skills	<ul style="list-style-type: none"> <li>• Experience in WebApi using a micro-service architecture.</li> <li>• Basic knowledge of entity framework/dapper, SOLID Principles, and Design patterns.</li> <li>• Knowledge of NoSQL platforms (ElasticSearch/MongoDB/CouchBase)</li> <li>• Experience in unit testing frameworks like X unit, and N unit.</li> </ul>
Responsibilities	<ul style="list-style-type: none"> <li>• Must be responsible for building a reusable component and translating design wireframes into high-quality code.</li> <li>• Should take ownership of the task assigned and should ensure that proper coding standards are followed during development.</li> <li>• Analyzing data to effectively coordinate the installation of new systems or the modification of existing systems.</li> <li>• Managing the software development lifecycle and Monitoring system performance.</li> <li>• Communicating key project data to team members and building</li> </ul>



	cohesion among teams
Nature of Appointment	On contract basis for 1 year and the term may be extended for a further period of two years on satisfactory performance and the project requirements.

### VIII. Junior Software Engineer (.Net)

Job Code	: JSEN/12025/512
Name of post	: Junior Software Engineer (.Net)
No. of Vacancies	: 02 nos.
Remuneration	: Rs.25,000 – 40,000 consolidated per month
Age:	: Should not exceed 30 as of the last date for submission of application.
Essential Educational Qualification	MCA or B-Tech/BE
Essential Experience	One year of experience in software development with .Net core and C#
Required Skills	<ul style="list-style-type: none"> <li>• Minimum one year of proven industry experience as a Web developer.</li> <li>• Knowledge of basic coding languages, including C#, HTML5, and JavaScript / TypeScript.</li> <li>• Should have good knowledge of OOPS Concepts and SOLID principles.</li> <li>• Working knowledge in PostgreSQL, SQL Server/ MySQL/ Maria DB/ Mongo DB databases.</li> <li>• Ability to learn new software and technologies quickly.</li> <li>• Ability to follow instructions and work in a team environment</li> </ul>
Desired Skills	<ul style="list-style-type: none"> <li>• Familiarity with front-end frameworks like Angular</li> <li>• Knowledge of web services and RESTful API development.</li> <li>• Understanding of Micro-services architecture</li> <li>• Knowledge of JSON, Web Services, XML, JSON, PL/SQL</li> <li>• Understanding of cloud technologies and deployment (e.g., AWS, Azure, Google Cloud)</li> <li>• Knowledge of NoSQL platforms (ElasticSearch/MongoDB/CouchBase)</li> </ul>



	<ul style="list-style-type: none"> <li>• Passion for staying on top of the latest happenings in the tech world and an attitude to discuss and bring those into play.</li> </ul>
Responsibilities	<ul style="list-style-type: none"> <li>• Work closely with senior developers to design, develop, and maintain web applications using .Net technologies.</li> <li>• Develop web-based applications, including user interfaces, business logic, and database integration.</li> <li>• Perform unit testing to ensure code quality and identify any bugs or issues.</li> <li>• Assisting the development manager with all aspects of software design and coding.</li> <li>• Attending and contributing to company development meetings.</li> <li>• Learning the code base and improving your coding skills.</li> <li>• Writing and maintaining code.</li> <li>• Working on minor bug fixes.</li> <li>• Monitoring the technical performance of internal systems.</li> </ul>
Nature of Appointment	On contract basis for 1 Year. However, the term may be extended further based on the performance and project requirements.

**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 a test and/or Interview

**Venue of Test/Interview:** The test /Interview will be conducted in Thiruvananthapuram district only.

**Job Location:** For all posts will be at Thiruvananthapuram

### **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 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.
3. 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.

4. In case any discrepancy / ambiguity in the process of selection, the decision of the University shall be final and binding.
5. 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.
6. Canvassing in any form will entail the cancellation of candidature.

### **How to Apply:**

1. Applications shall be submitted online latest on **31/01/2025**. The application form is available at <https://www.duk.ac.in/careers>.
2. The applications received after the last date fixed or the incomplete applications or the applications without filling the relevant field will be summarily rejected.
3. 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.
4. The candidates are advised to check their registered e-mails regularly after the last date fixed for the submission of the application.
5. 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.

