

# JOB REQUIREMENTS

NADRA invites applications from Pakistan citizens only for hiring the services for following positions as details are mentioned below. Last date for receipt of applications is 01/11/2023 (last date for receipt of applications).

Post	Minimum Qualification	Maximum Age	Experience
<b>Senior Software Engineer</b>	BS (Computer Science) Software Engineering or IT related subjects 4 years degree from HEC recognized university.	45 Years	At least 7-10 years of proven experience as a Team Lead/Senior Software Engineer.

- Mandatory Requirements:**
- Analytical mind with problem solving aptitude
  - Extensive experience in software designing, development and project management
  - Extensive experience of programming languages (JAVA, JAVA Enterprise Edition) and JavaScript frameworks (React.js, Vue.js, Node.js, Angular etc.)
  - Extensive experience of multiple front-end languages and libraries e.g. HTML, CSS, JavaScript, XML, JQuery, Bootstrap
  - Experience in MEAN or MERN web development stacks
  - Experience in containerization platforms (Docker)
  - Experience in version control tools (GIT, CVS etc.)
  - Proficiency in one or more of the following: Spring, Struts, JPA, Hibernate, EJB 3, JSF, Prime Faces
  - Extensive experience of Relational Database (Oracle, MS SQL Server, SQL and PostgreSQL and NoSQL database (MongoDB)
  - Extensive experience in developing enterprise level systems
  - Sound understanding of software design principles and various software development life cycles
  - In depth understanding of software design patterns
  - Extensive experience of code optimizations
  - Knowledge of latest DevOps trends and cloud-based technologies
  - Ability to review code and guide software development teams
  - Excellent communication, organizational and leadership skills
  - Ability to mentor software engineers for skill and knowledge development

Post	Minimum Qualification	Maximum Age	Experience
<b>Software Engineers</b>	BS (Computer Science) Software Engineering or related subject 4 years degree from HEC recognized university.	35 Years	At least 2-5 years of proven experience as a Full Stack developer

- Mandatory Requirements:**
- Proven experience of development in programming languages (e.g. JAVA, JAVA Enterprise Edition) and JavaScript frameworks (React.js, Vue.js, Node.js, Angular etc.)
  - Sound knowledge of RESTful APIs
  - Knowledge of designing Responsive Applications
  - Knowledge of database (Oracle, My SQL, PostgreSQL) and database connectivity with JAVA
  - Knowledge of MEAN or MERN web development stacks
  - Proficiency in one or more of the following: Spring, JPA, Hibernate, EJB 3, JSF, Prime Faces
  - Object oriented analysis and design using common design patterns
  - Experience in developing enterprise level systems that utilize a tiered and component approach
  - Experience with test driven development

Post	Minimum Qualification	Maximum Age	Experience
<b>Senior Data Scientist</b>	BS (Computer Science) Software Engineering or related subject 4 years degree from HEC recognized university.	45 Years	At least 7-10 years of proven experience as a Senior Data Scientist

- Mandatory Requirements:**
- Extensive experience of working with large scale, complex datasets to create/optimize machine learning, predictive, forecasting, and/or optimization models
  - Extensive experience with data querying languages (e.g. SQL, Oracle), scripting languages (e.g. Python, R), and statistical/mathematical software tooling (e.g. R, SAS, Stata, Matlab, etc.)
  - Experience in an analytical role involving data extraction, analysis, and communication
  - Extensive experience with both supervised learning methods (linear and logistic regression, time series modeling, generalized linear models, decision trees, random forests, support vector machines, etc.) and unsupervised learning methods (K-means, hierarchical clustering, association rules, principal components)
  - Proven ability to convey rigorous technical concepts and considerations to non experts
  - Build models and tools using technical knowledge in machine learning, statistical modeling, probability and decision theory, and other quantitative techniques
  - Improve upon existing methodologies by developing new data sources, testing model enhancements, and fine-tuning model parameters
  - Communicating verbally and in writing to business customers and leadership team with various levels of technical knowledge as well as sharing insights and recommendations
  - Understand the business reality behind large sets of data and develop meaningful analytic solutions
  - Excellent verbal and written communication skills with the ability to effectively advocate technical solutions to engineering teams and business audiences

Post	Minimum Qualification	Maximum Age	Experience
<b>Data Scientists</b>	BS (Computer Science) Software Engineering or related subject 4 years degree from HEC recognized university.	35 Years	At least 2-5 years of proven experience as a Data Scientist

- Mandatory Requirements:**
- Strong Analytical and Problem-Solving Skills
  - Experience in using statistical/computer languages (R, Python, Matlab, etc.) to manipulate data and draw insights from large data sets
  - Sound knowledge of a variety of machine learning techniques (clustering, decision tree learning, artificial neural networks, etc.)
  - Knowledge of advanced statistical techniques and concepts (regression, properties of distributions, statistical tests and proper usage, etc.) and experience with applications
  - Experience querying RDBMS databases
  - Experience with distributed data/computing/data mining tools: Hadoop, Spark
  - Experience in visualizing/presenting data for stakeholders using latest visualization tools
  - Knowledge of Image Processing algorithms, Pattern Recognition algorithms and Deep Learning Neural Networks is a strong plus

Post	Minimum Qualification	Maximum Age	Experience
<b>Senior Database Administrator</b>	BS (Computer Science) Software Engineering or related subject 4 years degree from HEC recognized university.	45 Years	At least 7-10 years of proven experience as a Senior Database Administrator

- Mandatory Requirements:**
- Extensive experience of Oracle database administration
  - Extensive experience of Oracle data guard and Golden Gate
  - Extensive experience of both windows and Unix (Linux, AIX, Solaris etc.) along with experience of Unix shell scripting
  - Experience of different server and storage hardware used for running databases
  - Extensive experience of working with databases in HA environment
  - Extensive experience in different backup tools and applications along with RMAN and UDF procedures
  - Extensive experience in monitoring and optimizing databases
  - Extensive experience in designing and implementing Oracle security
  - Experience of running different Oracle and third party security applications like Guardium, Oracle Database Vault etc.
  - Experience with large data sets, high availability, disaster recovery in mission critical environments
  - Plan and implement a high availability/high disaster recovery (HA/DR) environment
  - Ability to monitor teams on MySQL queries best practices
  - Applicants with database certifications will be preferred
  - Experiencing relevant certifications and architectural plans with the ability to make trade-offs and compromise to meet business objectives and product goals

Post	Minimum Qualification	Maximum Age	Experience
<b>Business Analysts</b>	4 years Bachelor's degree/Preferably in Computer Science or IT subjects from HEC recognized university.	35 Years	At least 2-5 years of proven experience as a Business Analyst in a Software Development environment

- Mandatory Requirements:**
- Identifying any problems with the current business model
  - Diagnosing potential solutions to any problems identified during the research phase
  - Gathering, validating and documenting business requirements
  - Preparing and delivering a report of their findings to management with comprehensive risk and impact assessment
  - Developing comprehensive and detailed list of the best uses for the application and multi applications etc.
  - Facilitating the implementation of approved process improvements
  - Supporting business transition and helping to establish change
  - Applicants with B.A. Certifications will be preferred
  - Mandatory 4 certifications from interpersonal skills
  - Applicants must check the knowledge of Requirements in excel/Management
  - Mandatory technical writing skills and command on English language

1. Interested candidates may send their application along with following details: Full name, father name, location, DMC, education, experience, mailing address, mobile landline number and date of birth at following address within three (3) days of publication of this advertisement. 2. Please mention clearly the name of the post on Right Corner of the Envelope and Application. 3. Management reserves the right to accept/reject any application without assigning any reason. 4. Only short listed candidates will be called for interview. 5. Candidate can be disqualified at any stage of recruitment process on account of false documents and false information. 6. Interview will be based on open merit basis. 7. For (10) years retention in job will be given as per Govt Rules. 8. No TA/DA will be admissible for appearing in interview.

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