

N-21/57/2025-NeGD
National e-Governance Division
Digital India Corporation
Electronics Niketan, 6, CGO Complex Lodhi Road,
New Delhi – 110003
Website: www.negd.gov.in / www.dic.gov.in

Web Advertisement
06-07-26

The National e-Governance Division (NeGD) is an independent business division under the Digital India Corporation, Ministry of Electronics and Information Technology. NeGD has been playing a pivotal role in supporting MeitY in Programme Management and implementation of e-Governance projects and initiatives undertaken by various Ministries/ Departments, both at the Central and State levels.

NeGD has been spearheading several innovative initiatives under the aegis of the Digital India Programme. Those have been developed keeping the vision areas of Digital India at the core- providing digital infrastructure as a core utility to every citizen, governance and services on demand and in particular, digital empowerment of the citizens of our country; some of these initiatives include DigiLocker, UMANG, Poshan Tracker, OpenForge Platform, API Setu, National Academic Depository, Academic Bank of Credits, Learning Management System.

It has myriad roles and responsibilities from supporting Central Line Ministries and State Government Departments on e-Governance projects, reviewing State Action Plans, offering support in technology management, strategy formulation & implementation of Emerging Technologies viz. AI, Blockchain, GIS etc., to facilitating digital diplomacy with focus on Indian startups and products

NeGD has been a leader in implementation and execution of a gamut of pilot/ infrastructure/ technical/ special projects and support components to framing core policies, project appraisals, R&D, and guiding /conducting assessments, undertaking activities for building capacities of both Government officials and] other stakeholders, and creating mass awareness about schemes and services under the Digital India Programme.

NeGD is currently inviting applications for the following positions purely on Contract basis initially for a period of 1 year which is further extendable as per the requirement of the project.

S. No	Position	Location	Vacancy
1	Solution Architect / DevOps Lead	Mumbai	01
2	Data Engineer cum Database Administrator	New Delhi	01
3	QA / Test Engineer	Mumbai	01
4	Data Visualization Expert / Data Analyst	Mumbai	01

* The maximum age limit shall be 55 years on the closing date of receipt of application.

** The place of posting shall be in New Delhi but transferable to project locations of NeGD as per existing policy of NeGD/DIC.

Screening of applications will be based on qualifications, age, and relevant experience. NeGD reserves the right to fix higher threshold of qualifications and experience for screening and limiting the number of candidates for interview. Only shortlisted candidates shall be invited for interviews. NeGD reserves the right to not to select any of the candidates without assigning any reason thereof.

The details can be downloaded from the official website of DIC and NeGD, viz. www.dic.gov.in, www.negd.gov.in.

Eligible candidates may apply ONLINE: <https://ora.digitalindiacorporation.in/>

Last date for submission of applications will be: 26.07.2026

Job Title: Solution Architect / DevOps Lead

Role Overview

The Solution Architect / DevOps Lead will be responsible for designing the end-to-end technical architecture of the NDCS platform, setting up cloud infrastructure, and managing CI/CD pipelines to ensure secure, scalable, and high-availability deployments. This role bridges architecture, cloud engineering, and DevOps practices to enable continuous delivery of the NDCS solution.

Key Responsibilities

- Architect, design, and document the end-to-end solution for the NDCS platform, including microservices, API gateway, data flows, and cloud topology.
- Define the cloud infrastructure, including networking, storage, compute, and security layers, for Government Cloud or AWS/Azure.
- Set up and manage CI/CD pipelines for automated build, testing, and deployment of NDCS modules.
- Implement containerisation (Docker) and orchestration (Kubernetes) for scalable microservices deployment.
- Implement Infrastructure-as-Code (IaC) using Terraform, Ansible, or equivalent tools.
- Design and enforce cloud security controls, identity and access management (IAM), encryption standards, and CERT-In compliance policies.
- Integrate monitoring, logging, and alerting systems (ELK/Prometheus/Grafana) for infrastructure observability.
- Optimise cloud resources for performance, cost-efficiency, and scalability.
- Support integration with maritime systems, including MSW, e-Samudra, ULIP, LRIT, and PCS via secure API architecture.
- Lead disaster recovery planning, backup strategy, failover environments, and BCP documentation.
- Mentor DevOps team members and review complex infrastructure design decisions.
- Maintain Technical documentation, architecture diagrams, and deployment workflows throughout all project phases.

Required Skills & Qualifications

- Strong experience in designing and managing cloud infrastructure on AWS, Azure, GCP, or Government Cloud.
- Hands-on expertise with containerisation (Docker) and orchestration (Kubernetes / Helm).
- Experience with Infrastructure-as-Code using Terraform, Ansible, or similar tools.
- Proficiency in CI/CD pipeline setup using Jenkins, DevOps, GitLab CI, or GitHub Actions.
- Understanding of virtual networks, VPNs, load balancers, firewalls, and cloud security configurations.
- Familiarity with API gateways, service mesh (Istio/Linkerd), and microservices-oriented architectures.
- Experience with logging and monitoring stacks (ELK/EFK, Prometheus, Grafana, CloudWatch).
- Knowledge of CERT-In guidelines, data protection laws, encryption standards, and RBAC policies.

- Ability to troubleshoot complex issues across networking, containers, security, and microservices layers.
- Strong communication, documentation, and collaboration skills.

Eligibility Criteria

Parameter	Requirement
Educational Qualification	B.E. / B.Tech / MCA / M.Sc. in Computer Science, IT, or related engineering field
Experience	Around 4-8 years in Solution architecture, DevOps, and solution design roles
Preferred	Experience with Cloud/ Data Centre, e-Governance or maritime sector projects
Desirable Certifications	AWS Solutions Architect (Associate/Professional), Microsoft Azure Solutions Architect Expert, Google Professional Cloud Architect, Certified Kubernetes Administrator (CKA – CNCF), Oracle Cloud Infrastructure Architect (Associate/Professional) or equivalent

Job Location: Mumbai

Office Address: Indian Ports Association (IPA), Satellite Office Mumbai, West Wing, 3rd Floor, Bhandar Bhavan, Muzawar Pakhady Road (N. V. Nakhwa Road), Elphinstone Estate, Mumbai- 400051

Job Title: Data Engineer cum Database Administrator

Role Overview

The Data Engineer cum Database Administrator will be responsible for building and managing the NDCS data infrastructure, including designing the data warehouse, developing ETL pipelines, integrating with external maritime systems, and ensuring database performance, security, and high availability. This role is central to the NDCS platform's data backbone.

Key Responsibilities

- Design, develop, and maintain the NDCS data warehouse and entity-relationship (ER) model for unified coastal shipping data.
- Build and manage ETL pipelines using Apache Airflow / Apache NiFi for automated ingestion, transformation, and loading of data from maritime systems, including e-Samudra, MSW, LRIT, IWAI PANI, PCS, and CAR-D.
- Configure and manage PostgreSQL and PostGIS databases for structured storage of vessel, voyage, cargo, license, and spatial data.
- Perform data profiling, data quality checks, and validation to ensure accuracy and consistency of integrated datasets.
- Develop and manage data pipelines for historical data (minimum 3–5 years) to support trend analysis, forecasting, and KPI reporting.
- Optimise database performance through query tuning, indexing strategies, and parallel processing.
- Manage database installation, configuration, clustering, and migration in both clustered and non-clustered environments.
- Implement database security measures, backup and recovery strategies, and disaster recovery plans.
- Develop and maintain metadata and data dictionaries (e.g., IMO_Number, Voyage_ID, Cargo_Weight, Port_ID) for consistent KPI calculation.
- Provide GIS-enabled data support (GeoJSON / lat-long) for spatial analytics and route visualisation on the NDCS platform.
- Support analytics and BI teams by enabling data warehouse access and Power BI integration via SQL.
- Collaborate with backend developers to integrate data pipelines with NDCS microservices and API layers.
- Assist in the development of technical documentation and data architecture guidelines.

Required Skills & Qualifications

- Advanced SQL skills – proficient in complex queries, query optimisation, performance tuning, and report writing.
- Strong expertise in ETL frameworks, including Apache Airflow and Apache NiFi.
- Hands-on experience with PostgreSQL and PostGIS; knowledge of other databases, such as SQL Server and Redis, is an advantage.
- Deep understanding of data architecture, data modelling best practices, and data warehouse design for analytical platforms.
- Experience with BI platforms, including Power BI and their integration with data warehouses.
- Ability to understand source data from multiple platforms and map it into ER models for data integration and reporting.

- Experience implementing data cubes, data mining, analytics and BI systems.
- Familiarity with GIS data formats (GeoJSON, lat/long, shapefiles) for geospatial analytics.
- Strong analytical skills with attention to detail and accuracy in managing large, multi-source datasets.
- Effective communication skills to present findings to both technical and non-technical audiences.

Eligibility Criteria

Parameter	Requirement
Educational Qualification	B.E. / B. Tech / MCA / M.Sc. in Computer Science, IT, or related field
Experience	Around 4-8 years in data engineering, ETL development, and database administration roles
Preferred	Experience with e-Governance data platforms, maritime or logistics sector databases, or large-scale government data integration projects
Desirable Certifications	AWS Certified Solutions Architect (Associate or Professional), AWS Certified Data Analytics, PostgreSQL Certified Professional, or equivalent database/cloud certifications

Job Location: New Delhi

Office Address: Indian Ports Association (IPA), NBCC Building, 1st Floor, South Tower, NBCC Place, Bhisham Pitamah Marg, Lodhi Rd, Pragati Vihar, New Delhi, Delhi 110003

Job Title: QA / Test Engineer

Role Overview

The QA/Test Engineer will be responsible for ensuring the quality, reliability, and performance of the NDCS platform throughout all development and deployment phases. This role covers end-to-end testing, including functional, integration, regression, API, and performance testing, with a strong emphasis on test automation to support continuous delivery of the platform.

Key Responsibilities

- Develop and execute comprehensive test plans, test cases, and test scripts covering functional, integration, regression, performance, and security testing for the NDCS platform.
- Implement and manage test automation frameworks for UI, API, and integration testing using Selenium WebDriver, Cypress, REST Assured, JUnit, and TestNG.
- Perform end-to-end system integration testing across NDCS modules and integrated maritime systems, including MSW, e-Samudra, LRIT, IWAI PANI, and PCS.
- Conduct User Acceptance Testing (UAT) in coordination with stakeholders from DGS, IPA, and port authorities.
- Perform API testing and validation for all REST APIs developed within the NDCS microservices architecture.
- Conduct performance and load testing to validate system scalability, response times, and stability under expected traffic volumes.
- Identify, document, track, and validate the resolution of defects using bug-tracking tools; manage the defect lifecycle through to closure.
- Validate data integrity and accuracy across ETL pipelines, data warehouse, dashboards, and analytics outputs.
- Participate in agile sprints and review meetings, providing quality assurance input during development iterations.
- Prepare and maintain test documentation, including test reports, metrics, and sign-off documentation for each project milestone.
- Support pilot testing at selected ports and contribute to national rollout validation activities.
- Ensure compliance with security testing standards and coordinate with CERT-In empanelled vendors for security audits.

Required Skills & Qualifications

- Proficiency in test automation frameworks: Selenium WebDriver (UI automation), Cypress (frontend testing), REST Assured (API automation), JUnit / TestNG (unit and integration testing).
- Strong knowledge of functional, integration, regression, API, performance, and security testing methodologies.
- Experience with defect tracking and test management tools (JIRA, Bugzilla, or equivalent).
- Understanding of microservices architecture and REST API testing practices.
- Familiarity with CI/CD pipelines and integration of automated tests within deployment pipelines.
- Knowledge of database testing using SQL to validate data accuracy and integrity.
- Experience with performance testing tools such as JMeter, Gatling, or equivalent.
- Strong analytical skills with attention to detail for identifying edge cases and potential failure scenarios.
- Good communication skills for documenting test outcomes and liaising with development and stakeholder teams.

Eligibility Criteria

Parameter	Requirement
Educational Qualification	B.E. / B.Tech / MCA /M.Sc. in Computer Science, IT, or related field
Experience	Minimum 3+ years in software quality assurance, testing, and test automation roles
Preferred	Experience in testing e-Governance platforms, data-intensive applications, or large-scale government IT systems
Desirable Certifications	ISTQB Certified Tester (Foundation or Advanced), Certified Agile Tester (CAT), Selenium/Cypress automation certifications, or equivalent QA certifications

Job Location: Mumbai

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Job Title: Data Visualization Expert / Data Analyst

Role Overview

The Data Visualization Expert/Data Analyst will be responsible for designing, developing, and maintaining interactive dashboards, KPI frameworks, and analytical reports for the NDCS platform. This role bridges data engineering and policy insights by translating complex coastal shipping datasets into clear, actionable visualizations for regulators, port operators, and public users.

Key Responsibilities

- Design, develop, and publish interactive dashboards and analytical reports using Power BI or other open-source tools (Desktop, Service, and Gateway) for NDCS stakeholders, including DGS, MoPSW, ports, and the general public.
- Define, calculate, and standardise Key Performance Indicators (KPIs), including Vessel Turnaround Time, Dwell Time, Cargo Throughput, Route Utilisation, and Compliance Metrics in alignment with the KPI Definition Document.
- Connect Power BI to the NDCS data warehouse (PostgreSQL) and to external data sources via scheduled refreshes and real-time feeds.
- Develop DAX measures, calculated columns, and data models in Power BI for accurate, high-performance reporting.
- Create geographic visualisations and port activity maps using GIS data layers (GeoJSON / lat-long coordinates).
- Align and enhance existing reporting outputs (Excel / PDF / internal reports) into structured Power BI dashboards.
- Implement Row Level Security (RLS) in Power BI dashboards to enforce role-based data access for Ministry, DGS, Port, and Public user groups.
- Collaborate with the data engineering team to understand ETL pipeline schedules, data refresh cycles, and dataset limitations.
- Support analytics requirements for historical trend analysis (minimum 3–5 years), cargo flow forecasting, and infrastructure gap assessments.
- Prepare data quality reports and flag inconsistencies in integrated datasets from e-Samudra, LRIT, MSW, IWAI PANI, and PCS.
- Document all dashboard designs, data flows, and KPI definitions in the NDCS Analytics and Reporting Manual.
- Support the incorporation of predictive analytics and AI/ML-based forecasting capabilities during the O&M phase.

Required Skills & Qualifications

- Strong proficiency in Power BI (Desktop, Service, Power BI Gateway), including data modelling, DAX, and report publishing.
- Solid SQL skills for querying data warehouses, data validation, and supporting dashboard development.
- Experience with GIS-based visualisations, including geographic mapping of routes, ports, and vessel movements.
- Ability to translate business and regulatory requirements into actionable KPI frameworks and dashboard designs.
- Familiarity with data warehousing concepts and BI environment configuration (ETL pipelines, data refresh, and data governance).

- Understanding of role-based access and Row Level Security (RLS) in BI platforms.
- Knowledge of Python or R for exploratory data analysis and statistical modelling is an advantage.
- Strong communication skills to present analytical insights to both technical and non-technical stakeholders.
- Attention to detail with a data-driven mindset for identifying trends, anomalies, and operational insights.

Eligibility Criteria

Parameter	Requirement
Educational Qualification	Graduate / Post-Graduate in Computer Science, Statistics, Data Science, IT, or related field
Experience	Around 4-8 years in data analysis, dashboard development, and BI reporting roles
Preferred	Experience with e-Governance analytics platforms, maritime or logistics sector reporting, or large-scale government data visualisation projects
Desirable Certifications	Microsoft Certified: Power BI Data Analyst Associate (PL-300), Microsoft Certified: Data Analyst Associate, or equivalent BI/data analytics certifications

Job Location: Mumbai

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General Conditions applicable to all applicants covered under this advertisement

1. Those candidates, who are already in regular or contractual employment under Central / State Government, Public Sector Undertakings or Autonomous Bodies, are expected to apply through proper channel or attach a 'No Objection Certificate' from the employer concerned with the application OR produce No Objection Certificate at the time of interview.
2. NeGD reserves the right to fill all or some or none of the positions advertised without assigning any reason as it deems fit.
3. The positions are purely temporary in nature for the project of NeGD/DIC and the appointees shall not derive any right or claim for permanent appointment at NeGD/DIC or on any vacancies existing or that shall be advertised for recruitment by NeGD in future.
4. NeGD reserves the right to terminate the appointments of all positions with a notice of one month or without any notice by paying one month's salary in lieu of the notice period.
5. The designation of the selected candidates shall be mapped as per the existing designation policy of NeGD.
6. In case of a query, the following officer may be contacted:

HR Team

National e Governance Division, 4th Floor, Electronics Niketan, 6-CGO, Complex
Lodhi Road, New Delhi – 110003
Email: Negdhr@digitalindia.gov.in