Job Title:

Systems Engineer – Core Engineering (Level 3B)

Location:

Mysore, Bangalore, Hubli, Chennai, Pune, Noida, Hyderabad

About Infosys Core Engineering (ENGCR):

Core Engineering (ENGCR) practice is a very differentiated horizontal, engaged in the complete product lifecycle of products across Aerospace, Automotive, Industrial and Energy industries. We are organized as two distinct service offerings:

- Mechanical and Electronics Product Development (METL)
- Turbomachinery & Propulsion Engineering (TMPE)

Who Can Apply:

Graduates with a BE/BTech in:

Mechanical Engineering, Aerospace Engineering, Automobile Engineering, Production Engineering, Civil Engineering, Electrical Engineering and allied branches.

Compensation:

INR 3.6 Lakhs Per Annum (LPA)

Why Join Us:

As an engineer, talent will:

- Possess knowledge of Mechanical/Aerospace/Automative/Electrical/Industrial/ Production, Manufacturing engineering practices and technologies.
- Participate in different activities during product development and lifecycle and responsible for quality engineering deliverables.
- Enhance their knowledge as professionals by leveraging hands-on experience on different projects.
- Deploy proactive and out of the box ideas to drive tangible improvements.

Key Responsibilities:

Requirements	Read and understand the requirements from SoW/Proposal/Requirements document, raise queries to the EL/EM and seek clarifications, where needed IN ORDER TO execute the tasks in accordance with the requirements.
Concept Design	Use CAD/CAM/CAE tools skills and technical and functional knowledge to contribute to concept design of products involving: - Convert concepts into sketches - Represent

	concepts in CAD - Perform calculations for trade studies - Perform feasibility analysis tasks IN ORDER TO develop ideas into concepts and identify suitable concepts
Preliminary Design	Perform preliminary design activities such as: Create layouts and/or schemes of concepts Create CAD Models from the layouts/schemes Create assemblies/sub-assemblies Perform quality checks against checklists IN ORDER TO develop preliminary designs from the concepts selected from concept phase.
Detailed Design	Perform detailed design activities such as: - Create CAD Models of the parts, Assemblies and sub-assemblies, 2D Drawings - Prepare Bill of Materials, Interface Drawings, Assembly/ integration drawings, Design information to analysis/sizing team, Design reports such as Weight Report. - Do FTA - Perform data exchange/translation tasks - update customer design database with latest designs and customer data management systems Perform the following activities for Simple and Medium projects - Perform Design for Manufacture, Tolerance Analysis, data exchange/translation activities IN ORDER TO complete detailed design to the customer requirements
Analysis by Hand Calculation Methods	For Simple, Medium and Complex Projects: - Study and understand the methodology of analysis - Set up XL/MATHCAD based calculations - Perform validation of set up - Perform calculations and analysis IN ORDER TO analyze and validate the designs.
CAE Analysis	For Simple, Medium and Complex Projects: - Create Finite Element Modelling (meshing, boundary conditions and loading etc) - Perform Finite Element Model Quality Checks - Perform Analysis, post processing of the results, validation calculations and Finite Element Model/Analysis Reports IN ORDER TO model and analyze products to the specifications
Documentation	Compile technical reports using technical report writing skills and knowledge in the respective engineering domain. Prepare and compile the content required

	documentation; templates and re-usable forms Study and adapt customer standards and practices IN ODER TO document and report the executed deliverables
Testing Support	Perform the defined design, analysis and documentation tasks pertaining to testing support IN ORDER TO validate the designs
Knowledge Based Engineering - Design	Understand KBE application architecture document and seek inputs from KBE architecture / design team to understand the overall architecture IN ORDER TO provide deliverables in line with architectural requirements
Knowledge Based Engineering - Development	Develop artifacts (Code, formal model, Documentation, Unit test scripts) conduct self/peer reviews, conduct unit test and document unit test results IN ORDER TO build the application and make it ready for validation /Delivery. Work on "go live" activities as per the implementation plan IN ORDER TO enable productionization of application without any issues.
Knowledge Based Engineering - Testing	Perform validation activities (Functional, integration, system, user experience) based on the plans, identification of defects found, creation of artifacts (Test scripts, Documentation, Automation, Setups) IN ORDER TO ensure a quality deliverable.
Knowledge Based Engineering - Warranty and Maintenance	Respond to KBE application maintenance issues, test and implement the solution IN ORDER TO enable the KBE application availability as per agreed service levels.
Quality Management	Perform self-checks on the completed work products against a checklist Perform quality checks of others work products against defined quality checklists IN ORDER TO ensure quality requirements of the deliverables are met.
Knowledge Management	Prepare BOKs. Present best practices and lessons learnt in the knowledge sharing sessions/project team meetings IN ORDER TO capture learnings in the project.

Skills & Attributes:

- Domain Knowledge – with specific focus on Product development for Aerospace, Automative, Turbomachinery, Powerplant and Heavy Engineering

- Basics of Mechanical/Aerospace Product development life cycle, General Engineering Practices, Power generation and Aero Engines and Working Principles, Materials and Applications and Aircraft Structure.
- Analytical thinking and problem-solving ability
- Excellent communication skills (written & verbal)
- Adaptability and eagerness to learn
- Team collaboration and cross-cultural sensitivity

Preferred Experience:

Internships, academic projects, or industrial visits related to engineering design and development are a plus.