

Job Notification Form, IIT Delhi

Company Overview

Name: Caterpillar India Private Limited

Website: <https://www.caterpillar.com/>

Company Type: Core (Technical)

Description: For nearly 90 years, Caterpillar Inc. has been making sustainable progress possible and driving positive change on every continent. Customers turn to Caterpillar to help them develop infrastructure, energy and natural resource assets. Caterpillar is the world's leading manufacturer of construction and mining equipment, diesel and natural gas engines, industrial gas turbines and diesel-electric locomotives. A lasting legacy of talented and committed employees give Caterpillar its competitive edge. It is our team that has allowed this company to accomplish great things. From the construction of the Hoover Dam, to facilitating communication for the Apollo moon-landing mission, to earthquake relief in Indonesia, our employees have never failed to give customers enduring results through superior service and innovation.

Job Details

Designation: Associate Engineer - ME_APP

Type: Core (Technical)

Place of Posting: Chennai / Bangalore

Job Details:

JD 2 - Electrification and Hybrid Power Systems: Mechanical Design
Description

For nearly 90 years, Caterpillar Inc. has been making sustainable progress possible and driving positive change on every continent. Customers turn to Caterpillar to help them develop infrastructure, energy and natural resource assets. Caterpillar is the world's leading manufacturer of construction and mining equipment, diesel and natural gas engines, industrial gas turbines and diesel-electric locomotives. A lasting legacy of talented and committed employees give Caterpillar its competitive edge. It is our team that has allowed this company to accomplish great things. From the construction of the Hoover Dam, to facilitating communication for the Apollo moon-landing mission, to earthquake relief in Indonesia, our employees have never failed to give customers enduring results through superior service and innovation.

As an Associate Engineer, you will have the opportunity to learn from and contribute in a collaborative team environment in the area of design of new global products and processes. This group enables electrification of Caterpillar products by working on identifying power sources (Battery, fuel cells, PV) to integrating with applications. This position will involve Mechanical development of Battery Systems, Energy Storage Containers, Bi-Directional Power Inverters, Chargers. In this entry-level engineering position, you will build your technical expertise while learning product development through practical application and staying abreast of innovative technology. You will also build your professional network, engage with peers and receive guidance from mentors in the field.

Responsibilities:

In this role, you will also deepen your knowledge base of Caterpillar's products,

- technologies, processes, services, and systems, which you will use to:
- Design & Development of Energy Storage Containers, Chargers, heavy & Light Fabrication, Cooling systems, accessories
 - Validation - FEA Analysis, Test Data Analysis, Validation test planning
 - Evaluate new products, processes, or systems
 - Communicate results to customers, suppliers, team members, and other business units
 - Contribute to the design of new products and processes
 - Perform product and process maintenance
- Requirements:
- Strong in Mechanical Engineering basics in the area of Applied Mechanics, Machine Design, FEA, Mechanical Vibration
 - Understanding of power systems, Alternate energy systems and AC motor drives.
 - Tools: Pro/E Creo, ANSYS, ABQUS, HyperMesh, SolidWorks.
 - Fatigue and Vibration concepts related to various components and systems
 - Basic knowledge of any Dynamic / Vibration Simulation software.
 - Demonstrated excellent judgement and decision-making ability, demonstrated ability to independently solve problems
 - Ability to communicate technical information effectively with team members and others in the work groups
- Desirable:
- Knowledge of Power Electronics, Generator, Wiring harness, motor and inverter controls, distribution systems and microgrids

Joining By: 1 June 2022

Salary Details

CTC:	1,164,277 INR Per Annum
Gross:	983,076 INR Per Annum
CTC Breakup:	Fixed - 10,52,737 Variable -1,11,540 Total - 11,64,277
Perks / Bonus:	Group hospitalisation (self & dependents) - 5,00,000 Group personal accident coverage (self) - 27,62,748 Term Life Insurance coverage (self) - 27,62,748
Bond:	Yes

Selection Process

Resume Shortlist:	Yes
Written Test:	No
Online Test:	Yes
Group Discussion:	Yes
Medical Test:	No
Personal Interview:	Yes

No. of 1
Rounds:

No. of 2
Offers:

Minimum CGPA: 6.5 CGPA and above with no current backlogs

Eligibility

Recruiting PHDs: Yes

Eligible Departments: M.Tech in Communications Engineering, M.Tech in Computer Technology, M.Tech in Control & Automation, M.Tech in Industrial Engineering, M.Tech in Integrated Electronics & Circuits, M.Tech in Mechanical Design, M.Tech in Power Electronics, Electrical Machines & Drives, M.Tech in Power Systems, M.Tech in Production Engineering, M.Tech in Thermal Engineering, M.S.(R) in Electrical Engineering, M.S.(R) in Mechanical Engineering