

JOB DESCRIPTIONS_Tech Team_EMOTORAD_BANGALORE

Job Title: **Intern - Motor Design and Development**

Location: **Bangalore (WFO / On-site)**

Company: **EMotorad**

Duration: **6 Months**

Joining: **Immediate joining preferred**

About EMotorad:

EMotorad is a leading electric mobility company dedicated to revolutionising the way people commute. We design and manufacture innovative electric bicycles and other sustainable transportation solutions that empower individuals to move efficiently, sustainably, and with style.

Qualification:

BE / B.Tech / B.Sc. in Electrical Engineering / Electrical and Electronics Engineering.
2023/2024 Pass Out

Skills Requirement:

1. Understanding of different types of electrical motors.
2. Hands-on experience in Simulation software (e.g., Ansys) and other relevant engineering tools (e.g., EAGLE, COMSOL)
3. Understanding of engineering principles, materials, and manufacturing processes, particularly related to electrical motors.
4. Good communication, and problem-solving skills.
5. Ability to work independently and as part of a team in a fast-paced and dynamic environment.

Job Description: - The selected candidate will be responsible for:

- Supporting in Design and development of electrical motors, considering performance, efficiency, and thermal characteristics.
- Conduct simulations and optimise designs for performance and manufacturability.
- Work closely with cross-functional teams to ensure the successful development of motor components, considering electrical and mechanical integration.
- Oversee the prototyping and testing of electrical motor components to validate design concepts and ensure functionality, reliability, and efficiency.
- Create and maintain accurate and comprehensive technical documentation, including drawings, specifications, and reports, related to electrical motor design and integration.
- Ensure that all documentation adheres to industry standards and regulatory requirements.

- Collaborate with cross-functional teams to ensure the successful integration of electrical motors into the overall product design.
- Communicate effectively with team members and internal stakeholders to ensure a clear understanding of project requirements and objectives.

What We Offer:

- Valuable experience working closely with an industry leader.
- Exposure to the fast-growing electric mobility sector.
- Opportunity to contribute to innovative and eco-friendly products.
- Collaborative and inclusive work environment.
- Competitive internship stipend ranging between **INR 20k-40k** (as per the candidate's experience and location)

Job Title: Battery Development Intern

Qualification: BE/B.Tech in Mechanical Engineering / Automobile Engineering 2023/2024 pass out

Duration: 6 months

Location: Bangalore (On-site)

Joining: Immediate Joiner

Company Description:

EMotorad (EM) is an electric vehicle company that strives to bring futuristic products at an affordable price for adventure seekers, daily commuters, or casual riders. We are looking for a highly enthusiastic engineer for developing Battery for Electric Vehicles.

Skills Requirement:

1. Hands-on experience in Designing Tools: - SolidWorks/ NX/ Catia V5.
2. Understanding about cell chemistry like NMC, NCA, LFP etc.
3. Strong hold on thermodynamics concepts.
4. Structural and Thermal management Designing of the battery pack and other auxiliary systems.
5. Knowledge of passive and active cooling systems.
6. Should have strong Communication and presentation skills.
7. Strong in Technical Decision making.

Job Description: - The selected candidate will be responsible for:

- Battery Pack Design Roles and Responsibilities- Multi-modular concepts.
- Cross functional team Interactions (Design-Development, Manufacturing and Supply Chain)
- Assisting the manufacturing and process team for scale-up of the battery pack production.
- Liaising with testing agencies for Certifications (ICAT, ARAI etc).
- Cell tab joining like Bolting, Laser Welding, Spot Welding, Wire Bonding selection process.
- Calculation Busbar thickness and design.

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