



SAARTHI • सारथी

करियर मार्गदर्शन पोर्टल • Career Guidance Portal

"सही मार्गदर्शन, उज्ज्वल भविष्य।"

करियर शीट • CAREER SHEET

इलेक्ट्रिक वाहन अनुसंधानकर्ता

An Electric Vehicle Researcher develops new technology by researching EV motors, batteries, software and design. In 2026 it is one of the most important roles in India's fast-growing EV industry.



Scan for everything on this career

Salary, exams, colleges, the routes in and the steps after — all on the portal.

career.gsssjethantri.in/#/career/eng-6973

राजकीय उच्च माध्यमिक विद्यालय, जेठन्तरी

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प्रधानाचार्य, रा.उ.मा.वि. जेठन्तरी • मास्टर ट्रेनर
Principal, GSSS Jethantri • Master Trainer



श्री चेनाराम चौधरी

प्रधानाचार्य, डाइट बाड़मेर
Principal, DIET Barmer



श्रीमती संघमित्रा

वरिष्ठ व्याख्याता, डाइट बाड़मेर (सहयोग)
Sr. Lecturer, DIET Barmer (Support)



भरत चौधरी

अभिकल्पना व विकास • व्याख्याता (इतिहास)
Designed & developed • Lecturer (History)

विशेष धन्यवाद • SPECIAL THANKS



सुरेन्द्र सिंह राठौड़

व्याख्याता (इतिहास) • रा.उ.मा.वि. कानाना



सुरेश कुमार सैन

व्याख्याता (भूगोल) • रा.उ.मा.वि. रामसीन मूंगड़ा



वनिता कुमारी

व्याख्याता (इतिहास) • रा.उ.मा.वि. रामसीन मूंगड़ा



कमलेश चौधरी

व्याख्याता (राजनीति विज्ञान) • रा.उ.मा.वि. टापरा

करियर मार्गदर्शन कार्यशाला, डाइट बाड़मेर (14-17 जुलाई 2026) में विकसित व लोकार्पित
Developed & unveiled at the Career Guidance Workshop, DIET Barmer (14-17 July 2026)

यह एक स्वतंत्र परियोजना है, जो सरकार की आधिकारिक करियर-मार्गदर्शन सामग्री पर आधारित है। • An independent project based on the Government's official career-guidance content.

1 About this career

An Electric Vehicle Researcher develops new technology by researching EV motors, batteries, software and design. In 2026 it is one of the most important roles in India's fast-growing EV industry.

2 At a glance

Minimum qualification	B.Tech/B.E. (Electrical/Mechanical/Automobile)
Work mode	Lab and desk based research work
Demand	Very high as EV sales and R&D investment grow rapidly
Top earning	₹2 lakh+ per month at senior scientist level

3 What you need

INTERESTS

- Solving problems
- Organising things and planning
- Creating new and modern things

ABILITIES

- Working with machines, tools and software
- Creating new designs and patterns
- Understanding relationships between systems

KEY SKILLS

- Deep understanding of batteries and power electronics
- MATLAB, simulation and CAD tools
- Writing and presenting research papers
- Motor and drivetrain design
- Data analysis and experimentation ability
- Teamwork and patience

4 How to get there

- 1 Complete Class 12 in Science stream (Physics, Chemistry, Maths)
- 2 Enter B.Tech (Electrical/Mechanical/Automobile) via JEE Main/Advanced or REAP
- 3 Do M.Tech or PG diploma in EV technology or a related subject
- 4 Use GATE to get research opportunities at IITs/NITs
- 5 Do internships and R&D projects in EV companies or research institutes
- 6 Optionally pursue a PhD to become a scientist

MAIN EXAMS

- JEE Main and JEE Advanced
- REAP (Rajasthan Engineering Admission Process)
- GATE (for M.Tech/PhD)

5 Where to study

GOVERNMENT INSTITUTES

- MNIT Jaipur — Jaipur, Rajasthan (<https://www.mnit.ac.in>)
- IIT Jodhpur — Jodhpur, Rajasthan (<https://www.iitj.ac.in>)
- Rajasthan Technical University — Kota, Rajasthan
- IISc Bengaluru — Bengaluru, Karnataka

PRIVATE INSTITUTES

- BITS Pilani — Pilani, Rajasthan
- Manipal University Jaipur — Jaipur, Rajasthan
- VIT Vellore — Vellore, Tamil Nadu

ONLINE

- IGNOU — Distance education
- NPTEL-SWAYAM EV Courses — Online

FEES

B.Tech fees are about ₹50,000 to ₹2 lakh per year in government institutes; private institutes may charge more.

SCHOLARSHIPS

- National Scholarship Portal (<https://scholarships.gov.in>)
- Rajasthan SJE Scholarships (<https://sje.rajasthan.gov.in>)
- Vidya Lakshmi Education Loan Portal (<https://www.vidyalakshmi.co.in>)

6 What the work is like

WHERE YOU WORK

Automobile companies, EV startups, research labs, technical institutes and R&D centres.

WORK CULTURE

Mostly desk and lab work; 5-6 days a week, 8-9 hours daily; overtime possible near project deadlines.

WHO HIRES

- Tata Motors and Mahindra Electric
- Companies like Maruti Suzuki, Hyundai and Bosch
- CSIR labs and IIT research centres
- Ather Energy and Ola Electric
- Testing bodies like ARAI and iCAT
- Energy projects linked to DRDO and ISRO

DEMAND (2026)

With over 2 million EVs selling annually in India by 2026 and heavy R&D investment under the PM E-DRIVE scheme, demand for researchers keeps rising.

7 Career growth

- 1 Research Assistant
- 2 Research Scientist
- 3 Project Manager
- 4 Subject Expert / Chief Scientist

EARNINGS

Starting	₹30,000-50,000
Mid level	₹60,000-90,000
Senior level	₹1,00,000-2,00,000

Approximate monthly pay; a PhD and EV specialisation raise salary quickly.

8 The good parts · The challenges

The good parts

- Opportunity to work on future technology
- High salary and global career prospects
- Direct contribution to protecting the environment

The challenges

- Long study path and need for continuous learning
- Research results take time to appear
- Work pressure near deadlines

9 Real-life journeys

Chetan Maini

Creator of the Reva electric car, EV research pioneer

Chetan Maini founded Reva in Bengaluru in 1998 and developed India's first electric car even before Tesla. Researching with limited resources, he sold over 4,000 cars worldwide and later co-founded SUN Mobility.

YourStory · <https://yourstory.com/2016/04/chetan-maini-reva-electric-car>

Prabhjot Kaur

Founder, Centre for Battery Engineering and Electric Vehicles (CBEEV), IIT Madras

Dr Prabhjot Kaur set up the Centre for Battery Engineering and Electric Vehicles at IIT Madras and co-founded Esmi Solutions, a battery-swapping startup. Her research makes electric vehicles cheaper and easier to use by letting riders swap batteries in minutes instead of waiting for a charge. She shows how a researcher can carry lab ideas all the way to India's roads.

Circuit Digest · <https://circuitdigest.com/interview/prabhjot-kaur-founder-of-cbeev-and-esmi-talks-about-smart-charging-solutions-that-can-help-lower-the-cost-of-ev-manufacturing-in-india>

10 Sources & further reading

1. Rajasthan Govt Career Guidance Portal — <https://cg.rajasthan.gov.in/careerguidance/hi/career/%e0%a4%87%e0%a4%b2%e0%a5%87%e0%a4%95%e0%a5%8d%e0%a4%9f%e0%a5%8d%e0%a4%b0%e0%a4%bf%e0%a4%95-%e0%a4%b5%e0%a4%be%e0%a4%b9%e0%a4%a8-%e0%a4%85%e0%a4%a8%e0%a5%81%e0%a4%b8%e0%a4%82%e0%a4%a7%e0%a4%be%e0%a4%a8/>
2. PM E-DRIVE Scheme (Ministry of Heavy Industries) — <https://pmedrive.heavyindustries.gov.in>
3. National Career Service (NCS) — <https://www.ncs.gov.in>
4. NIRF Rankings 2024 — <https://www.nirfindia.org/Rankings/2024/Ranking.html>



And 770+ more careers — the whole portal

Interest and aptitude tests, government jobs, skill courses and a CV builder — free, no login, and it works offline.

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