



SAARTHI - सारथी

करियर मार्गदर्शन पोर्टल · Career Guidance Portal

"सही मार्गदर्शन, उज्ज्वल भविष्य।"

करियर शीट · CAREER SHEET

इलेक्ट्रिक वाहन सॉफ्टवेयर डेवलपर

EV software developers build software for electric vehicle batteries, motor control, charging and connected features.

India's rapid EV growth makes this one of the hottest engineering careers of 2026.



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-6974

राजकीय उच्च माध्यमिक विद्यालय, जेठन्तरी

Govt. Sr. Sec. School, Jethantri · ब्लॉक समदड़ी · बालोतरा (Block Samdari · Balotra)

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सुशील कुमार शर्मा

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

EV software developers build software for electric vehicle batteries, motor control, charging and connected features. India's rapid EV growth makes this one of the hottest engineering careers of 2026.

2 At a glance

Minimum qualification	B.Tech in electrical/electronics/computer science
Work mode	Desk job with testing lab work
Demand	Very high (EV boom, PLI scheme)
Top earning	Above ₹3 lakh/month at senior level

3 What you need

INTERESTS

- Solving problems
- Interest in vehicles and technology
- Creating new and modern things

ABILITIES

- Working with software and equipment
- Creating new designs and patterns
- Understanding relationships between things

KEY SKILLS

- Embedded C/C++ programming
- Automotive systems like CAN bus and AUTOSAR
- MATLAB-Simulink and Python
- Software testing and diagnostics
- Battery management systems (BMS)
- Motor control algorithms
- IoT and connected vehicle technology

4 How to get there

- 1 Complete Class 12 with physics, chemistry and maths
- 2 Do B.Tech in electrical, electronics, mechanical or computer science
- 3 Take certificate courses in embedded systems and EV technology
- 4 Intern with an EV company or auto supplier
- 5 Specialise with M.Tech in e-mobility/power electronics

MAIN EXAMS

- JEE Main/Advanced or REAP (Rajasthan) for B.Tech
- GATE (EE/EC/CS) for M.Tech

5 Where to study

GOVERNMENT INSTITUTES

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

PRIVATE INSTITUTES

- BITS Pilani — Pilani, Rajasthan
- Poornima University — Jaipur, Rajasthan

ONLINE

- ASDC EV Courses — Online (<https://asdc.org.in>)
- IGNOU — Distance education, New Delhi (<https://www.ignou.ac.in>)

FEES

About ₹50,000-2.5 lakh per year in government institutes; up to ₹7 lakh per year in private ones.

SCHOLARSHIPS

- National Scholarship Portal (NSP) (<https://scholarships.gov.in>)
- Rajasthan SJE Scholarship Portal (<https://sje.rajasthan.gov.in>)

- AICTE Student Schemes (Pragati/Saksham) (<https://www.aicte-india.org>)

6 What the work is like

WHERE YOU WORK

Automotive companies, research labs, software-technology firms, charging infrastructure companies, startups.

WORK CULTURE

Mostly desk and testing lab work; freelancing and contract options; overtime near launches; entrepreneurship possible via startups.

WHO HIRES

- Automakers like Tata Motors and Mahindra
- Auto suppliers like Bosch and Continental
- Charging network companies
- EV startups like Ola Electric and Ather Energy
- Engineering service firms like Tata Elxsi and KPIT
- Research institutes (ARAI)

DEMAND (2026)

Big EV targets for 2030, the PLI scheme and software-defined vehicles create a large talent gap and high demand for EV software engineers.

7 Career growth

- 1 Graduate engineer trainee
- 2 EV software engineer
- 3 Senior software engineer
- 4 Tech lead/research scientist
- 5 Project manager/subject expert

EARNINGS

Starting	₹40,000-70,000
Mid level	₹90,000-1,60,000
Senior level	₹2,00,000-3,50,000

Monthly salary; BMS and AUTOSAR experts command premium pay.

8 The good parts · The challenges

The good parts

- Fast-growing sector with high pay
- Contribution to clean transport
- Startup and global opportunities

The challenges

- Technology changes fast, constant learning needed
- Work pressure before launches
- Early jobs concentrated in a few cities (Pune, Bengaluru)

9 Real-life journeys

Swapnil Jain

Co-founder and CTO, Ather Energy

Swapnil Jain, an IIT Madras graduate, co-founded Ather Energy and helped build India's first smart electric scooter. As Chief Technology Officer he led the software and electronics that give the scooter its touchscreen dashboard and over-the-air updates. His journey shows how coding skills can transform electric vehicles.

YourStory · <https://yourstory.com/2020/12/techie-tuesday-ev-startup-ather-energy-swapnil-jain-entrepreneurship>

Hemalatha Annamalai

Founder, Ampere Electric Vehicles

Hemalatha Annamalai started Ampere Vehicles in Coimbatore at a time when few in India believed in electric scooters. Working with a small team, she built affordable e-scooters and won backing from investors like Ratan Tata. Her company grew into one of India's leading electric two-wheeler makers.

YourStory · <https://yourstory.com/2015/08/ampere-electric>

10 Sources & further reading

1. Rajasthan career guidance portal - Electric Vehicle Software Developer — <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%b8%e0%a5%89%e0%a4%ab%e0%a5%8d%e0%a4%9f%e0%a4%b5%e0%a5%87%e0%a4%af/>
2. Automotive Skills Development Council (ASDC) — <https://asdc.org.in>
3. National Career Service (NCS) portal — <https://www.ncs.gov.in>
4. AICTE official website — <https://www.aicte-india.org>



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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