



# SAARTHI - सारथी

करियर मार्गदर्शन पोर्टल · Career Guidance Portal

"सही मार्गदर्शन, उज्ज्वल भविष्य।"

करियर शीट · CAREER SHEET

## स्मार्ट बिल्डिंग डिजाइनर/इंजीनियर

Smart building engineers design buildings that manage themselves using sensors, automation and energy-efficient systems. Smart City Mission and green building demand make this a rising career in 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-6978](https://career.gsssjethantri.in/#/career/eng-6978)

### राजकीय उच्च माध्यमिक विद्यालय, जेठन्तरी

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

[www.gsssjethantri.in](https://www.gsssjethantri.in) · [career.gsssjethantri.in](https://career.gsssjethantri.in)



#### 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

Smart building engineers design buildings that manage themselves using sensors, automation and energy-efficient systems. Smart City Mission and green building demand make this a rising career in 2026.

## 2 At a glance

|                       |                                             |
|-----------------------|---------------------------------------------|
| Minimum qualification | B.Tech in civil/electrical engineering      |
| Work mode             | Design desk + construction site visits      |
| Demand                | High (smart cities, green buildings)        |
| Top earning           | Above ₹2 lakh/month at chief engineer level |

## 3 What you need

### INTERESTS

- Keeping things organised and planning
- Interest in buildings and technology
- Creating new and modern things

### ABILITIES

- Sense of shape and space
- Working with software and equipment
- Understanding numbers, data and graphs

### KEY SKILLS

- AutoCAD and BIM (Revit) software
- IoT sensors and connected devices
- Understanding of HVAC and electrical systems
- Building management systems (BMS) and automation
- Energy efficiency and green ratings (GRIHA, LEED)
- Project management and teamwork

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## 4 How to get there

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- 1 Complete Class 12 with physics, chemistry and maths
- 2 Do B.Tech in civil, electrical or mechatronics engineering
- 3 Take certificate courses in building automation or energy management
- 4 Intern with a construction or MEP consulting firm
- 5 Specialise with M.Tech in building technology/energy

### MAIN EXAMS

- JEE Main / REAP (Rajasthan) for B.Tech
- BITSAT for BITS Pilani
- GATE for M.Tech

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## 5 Where to study

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### GOVERNMENT INSTITUTES

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

### PRIVATE INSTITUTES

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

### ONLINE

- IGNOU — Distance education, New Delhi (<https://www.ignou.ac.in>)

### FEES

About ₹50,000-2 lakh per year in government colleges; up to ₹2-5 lakh per year in private institutes.

### 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

Construction and engineering companies, control system firms, real estate developers, design consultancies.

### WORK CULTURE

Desk design plus site visits; local travel, often 6 days a week with 8-9 hour shifts; overtime near deadlines.

### WHO HIRES

- Construction majors like L&T
- MEP and green building consultancies
- Real estate developers
- Automation companies like Honeywell, Siemens, Johnson Controls
- Smart city projects and municipal bodies
- Government departments (PWD, housing boards)

### DEMAND (2026)

Rising green-certified buildings and smart city investment in India keep 2026 demand strong for engineers who know BMS and IoT.

## 7 Career growth

- 1 Building engineer
- 2 Project engineer/manager
- 3 Site manager
- 4 Chief engineer

### EARNINGS

|              |                    |
|--------------|--------------------|
| Starting     | ₹30,000-50,000     |
| Mid level    | ₹60,000-1,00,000   |
| Senior level | ₹1,25,000-2,00,000 |

Monthly salary; green building and automation expertise raises pay.

## 8 The good parts · The challenges

### The good parts

- Fast-growing modern field
- Uses both civil and IT skills
- Contributes to environment through energy savings

### The challenges

- Dust and weather challenges on site
- Deadline pressure and overtime
- Constant learning as technology changes

## 9 Real-life journeys

### Mili Majumdar

Managing Director of GBCI India, green building expert

Trained in architecture and energy studies, Mili Majumdar helped develop India's GRIHA rating at TERI. As Managing Director of GBCI India she now leads certification of thousands of smart, green buildings.

GBCI · <https://www.gbci.org/mili-majumdar>

### Ashish Rakheja

Managing Partner of AEON Consultants, MEP and smart building engineer

Mechanical engineer Ashish Rakheja has designed MEP systems for many of India's green and smart buildings and led bodies like ISHRAE. He urges young engineers to upskill in smart building technology.

MEP Journal · <https://mepjournal.com/role-of-mep-consultants-in-building-projects-in-india-ashish-rakheja/>

## 10 Sources & further reading

1. Rajasthan career guidance portal - Smart Building Designer — <https://cg.rajasthan.gov.in/careerguidance/hi/career/%e0%a4%b8%e0%a5%8d%e0%a4%ae%e0%a4%be%e0%a4%b0%e0%a5%8d%e0%a4%9f-%e0%a4%ac%e0%a4%bf%e0%a4%b2%e0%a5%8d%e0%a4%a1%e0%a4%bf%e0%a4%82%e0%a4%97-%e0%a4%a1%e0%a4%bf%e0%a4%9c%e0%a4%be%e0%a4%87%e0%a4%a8%e0%a4%b0/>
2. Indian Green Building Council (IGBC) — <https://igbc.in>
3. GRIHA - national green building rating — <https://www.grihaindia.org>
4. National Career Service (NCS) portal — <https://www.ncs.gov.in>



### 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.

[career.gsssjethantri.in](https://career.gsssjethantri.in)