



कनिष्ठ अभियंता (जे.ई.एन., राजस्थान राज्य विभाग)

A Junior Engineer is the technical officer in Rajasthan's construction departments who surveys, estimates and supervises roads, bridges, school buildings, canals, dams and village water supply schemes. The post is filled through...



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वरिष्ठ व्याख्याता, डाइट बाड़मेर (सहयोग)
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वनिता कुमारी

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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

A Junior Engineer is the technical officer in Rajasthan's construction departments who surveys, estimates and supervises roads, bridges, school buildings, canals, dams and village water supply schemes. The post is filled through Rajasthan Staff Selection Board (RSSB) recruitment, and crucially a student who has done a three-year polytechnic diploma after Class 10 is eligible. It is the shortest and most dependable route to becoming a government engineer without the expense of a B.Tech.

2 At a glance

Minimum qualification	A three-year diploma or a degree in the relevant branch (civil, electrical, mechanical or agricultural engineering); which branch, and whether diploma or degree, is fixed post-wise in each advertisement
Recruiting body	Rajasthan Staff Selection Board (RSSB), formerly RSMSSB; appointment in state departments such as Public Works, Public Health Engineering, Water Resources, and in earlier cycles Panchayati Raj
Starting salary	A scale of ₹29,100–₹1,04,400 corresponding to grade pay ₹5,400, which maps to Level 11 of the Rajasthan pay matrix; fixed remuneration for the two probation years, thereafter roughly ₹55,000–65,000/month in hand with allowances
Demand	Good — 874 posts under Advertisement No. 10/2026 (applications 16 August to 14 September 2026, exam expected February 2027); Jal Jeevan Mission and road and building construction keep the workload growing
Age limit	18–40 for Junior Engineer under the rules; 21–40 for Assistant Engineer — the upper limit is relaxed for reserved categories and for women (detail below)

3 What you need

INTERESTS

- Interest in machines, construction, drawings and technical things
- A desire to put mathematics and physics to practical use
- Enthusiasm for seeing roads, water and buildings come up in your own area

ABILITIES

- Accuracy in measurement, calculation and estimation — a small error can cost lakhs
- The spatial sense to read a drawing and translate it onto the ground
- Coordination and firmness among contractors, workers and villagers

KEY SKILLS

- Survey and levelling — using total station, auto level and GPS
- Estimation and rate analysis, and correct entry in the measurement book
- Reading and preparing drawings in AutoCAD and other engineering software
- Quality checks on construction material — testing cement, aggregate, concrete and pipes
- Laying out water supply and sewer lines, and supervising pump houses and tanks
- Knowledge of tendering, contracts, measurement-based payments and government financial rules
- Site safety, labour management and keeping the project on schedule

4 How to get there

- 1 Route A (the shortest): After Class 10 join a three-year diploma (civil/electrical/mechanical) at a government polytechnic — Rajasthan has 69 government polytechnics.
- 2 Route B: After Class 12 Science (Physics, Chemistry, Maths), do a B.Tech via JEE Main or state counselling — this also makes you eligible for the degree-based posts.
- 3 Diploma holders can, if they wish, join the second year of B.Tech directly through lateral entry.
- 4 While studying, build a strong grip on surveying, estimation and AutoCAD — these serve you in both the exam and the job.

- 5 Complete the One Time Registration (OTR) on the Rajasthan Recruitment Portal and apply to the post of your branch as soon as RSSB advertises Junior Engineer vacancies.
- 6 Clear the written exam, complete document verification, and after appointment serve the two-year probation.
- 7 Age — Assistant Engineer: 21 attained and 40 not attained. Junior Engineer and the other Schedule-II posts: 18 attained and 40 not attained. Relaxation in the upper age limit — 5 years for male candidates of the SC, ST, Backward Classes, More Backward Classes and EWS; 5 years for General-category women; and 10 years for women of those same categories. That is the standing position in the service rules; what applies in a particular recruitment is fixed by that recruitment's advertisement, so read the notification before applying. (source: Rajasthan Rural Development and Panchayati Raj State and Subordinate Service Rules, 1998)

MAIN EXAMS

- RSSB Junior Engineer recruitment exam — an objective paper of 120 marks in 2 hours, with 40 marks of General Knowledge and 80 marks of the engineering subject, and one-third negative marking. Document verification follows.
- Admission to a polytechnic diploma: through Rajasthan's diploma admission process, on the merit of Class 10 marks.
- Current cycle (Advertisement No. 10/2026): 874 posts in all — Public Works 393, Water Resources 251 and Public Health Engineering 230; age 18 to 40 years as on 1 January 2027.
- Other options: Junior Engineer recruitment by Rajasthan's power companies (JVVNL, AVVNL, JdVVNL, RVUNL), and the central SSC JE and Railway JE examinations.

- To go further: the Rajasthan Public Service Commission's Assistant Engineer (AEn) recruitment examination.
- Relaxation in the upper age limit — 5 years for male candidates of the Scheduled Castes, Scheduled Tribes, Backward Classes, More Backward Classes and Economically Weaker Sections; 5 years for women candidates of the General category; and 10 years for women candidates of those same categories. Which means plainly that the bare figure printed against a post understates a reserved-category woman's eligibility by a decade — if you are in that category, work out your eligibility only after adding the relaxation. In Rajasthan, 30% of the posts in direct recruitment are reserved category-wise for women candidates. Widows and divorced women have no upper age limit at all — the rules say it in those words. It is Rule 13(9) of the Rajasthan State and Subordinate Services (Direct Recruitment by Combined Competitive Examination) Rules 1999, it appears again as the same proviso in the Rajasthan Medical & Health Subordinate Service Rules, and RPSC advertisements reproduce it. A widow must furnish a certificate of the death of her husband from the competent authority, and a divorced woman the proof of divorce. The exact terms of relaxation and reservation are given in that recruitment's own advertisement.

5 Where to study

GOVERNMENT INSTITUTES

- Directorate of Technical Education, Rajasthan — 69 government polytechnic colleges offering 3-year diplomas — Across Rajasthan (Jaipur, Jodhpur, Kota, Ajmer, Udaipur, Bikaner and more) (<https://dte.rajasthan.gov.in/>)
- Government Women's Polytechnic Colleges (for girl students) — Jaipur, Jodhpur and other districts (<https://dte.rajasthan.gov.in/>)
- MBM University (formerly MBM Engineering College) — Jodhpur (<https://mbm.ac.in/>)
- Malaviya National Institute of Technology (MNIT) — Jaipur (<https://www.mnit.ac.in/>)
- Rajasthan Technical University and its constituent engineering colleges — Kota

- College of Technology and Engineering, MPUAT (agricultural engineering) — Udaipur (<https://www.mpuat.ac.in/>)

PRIVATE INSTITUTES

- Private polytechnic colleges approved by the Board of Technical Education, Rajasthan — Across Rajasthan (<https://dte.rajasthan.gov.in/>)
- Private engineering colleges affiliated to Rajasthan Technical University — Jaipur, Kota, Udaipur and elsewhere

ONLINE

- NPTEL and SWAYAM — free civil, electrical and mechanical engineering courses — Online (<https://swayam.gov.in/>)
- IGNOU — diploma and certificate programmes in civil and construction subjects — Distance (<https://www.ignou.ac.in/>)
- आर.एस.एस.बी. — पिछले प्रश्न-पत्र, उत्तर कुंजी व पाठ्यक्रम (निःशुल्क) — The Staff Selection Board's own site — the most reliable free preparation material there is (https://rsmssb.rajasthan.gov.in/show_archived?menuName=Xj4lCb9vGxpQnfls%2FxlZ2g%3D%3D)
- स्वयं (SWAYAM) — भारत सरकार के निःशुल्क ऑनलाइन कोर्स — Free (<https://swayam.gov.in/>)
- राष्ट्रीय डिजिटल पुस्तकालय (NDLI) — Free books and study material (<https://ndl.iitkgp.ac.in/>)
- एन.सी.ई.आर.टी. — निःशुल्क पाठ्यपुस्तकें — The foundation for general knowledge, maths and science (<https://ncert.nic.in/>)

FEES

In government polytechnics the three-year diploma is very cheap (about ₹10,000–25,000 per year), while private polytechnics may charge ₹35,000–70,000 per year. A B.Tech in a government engineering college costs roughly ₹60,000–1 lakh per year and more in private colleges. For recruitment, the One Time Registration (OTR) fee on the Rajasthan Recruitment Portal is ₹600 for general candidates and ₹400 for Rajasthan SC/ST, EWS and non-creamy-layer OBC candidates.

SCHOLARSHIPS

- National Scholarship Portal (NSP) (<https://scholarships.gov.in/>)
- Rajasthan Higher and Technical Education scholarship portal (<https://hte.rajasthan.gov.in/>)
- Rajasthan Social Justice and Empowerment Department scholarships (<https://sje.rajasthan.gov.in/>)

6 What the work is like

WHERE YOU WORK

Construction sites — roads, bridges, government buildings and schools, canals and dams, water treatment plants, pump houses, overhead tanks and pipelines being laid village to village; plus the sub-division office where estimates and measurement books are handled.

WORK CULTURE

Half the time is spent in the field and half in the office — site inspection in the morning, coordination with contractors and workers through the day, and measurement entries and files in the evening. The responsibility is heavy because both public money and people's safety rest on your signature; there are also long hours outdoors in the heat and target pressure from programmes such as Jal Jeevan Mission.

WHO HIRES

- Public Works Department, Rajasthan (roads, bridges and government buildings)
- Water Resources Department (canals, dams and irrigation projects)
- Rajasthan's power companies (JVNL, AVNL, JdVNL, RVNL), the Housing Board and RUIDP
- Public Health Engineering Department (drinking water and Jal Jeevan Mission)
- Panchayati Raj and Rural Development Department, and municipal bodies under the Local Self Government Department
- Central options — CPWD through SSC JE, Railway JE, and private construction and infrastructure companies

DEMAND (2026)

Roads, buildings, canals and above all the house-to-house tap connections under Jal Jeevan Mission are being built on a huge scale in Rajasthan, so field engineers are needed continuously. In August 2026 recruitment for 874 posts opened under Advertisement No. 10/2026, which besides civil also carries posts for mechanical and electrical diploma holders in the Public Health Engineering Department. The state's power companies, urban local bodies and central exams such as SSC JE and Railway JE add further options. One thing to be clear about — the "demand" described above counts posts, not your chance of getting one. Selection is by open competition and the number of applicants runs to many times the number of posts, so most candidates are not selected in any given recruitment. That is not an argument against this career; it is an argument against making it your only plan. Keep studying or building a skill alongside your preparation, so that the year is not lost whichever way the result goes.

7 Career growth

- 1 Junior Engineer (entry level) — site supervision and measurement in a sub-division
- 2 Assistant Engineer (AEn) — by departmental promotion or through the Rajasthan Public Service Commission exam
- 3 Executive Engineer (EEn) — charge of all projects in a division
- 4 Superintending Engineer and Chief Engineer — circle and state level
- 5 A parallel path: study B.Tech/M.Tech while in service for teaching and senior technical posts, or move to private infrastructure and independent contracting or consultancy

EARNINGS

Starting	₹37,800 (मूल, लेवल-11)
Mid level	₹7-9 लाख/वर्ष
Senior level	₹12-18 लाख/वर्ष (अधिशाली/अधीक्षण अभियंता स्तर पर)

The starting figure is BASIC PAY — the entry basic at pay matrix Level 11 — so that it can be compared directly against other careers. Dearness allowance (60% of basic since 1 January 2026) and house rent allowance are added on top of it, so take-home pay is appreciably higher. The mid-level and senior figures are approximate monthly income including allowances, not basic pay. Note — in Rajasthan a direct recruit is a probationer-trainee for the first 2 years and is paid a fixed remuneration, not the pay scale; dearness allowance and house rent allowance are not payable in those two years (Rajasthan Service Rules, rule 7(30A)). The full pay scale applies once probation is completed. As per the advertisement the post carries a scale of ₹29,100–₹1,04,400 with grade pay of ₹5,400, which corresponds to Level 11 of the Rajasthan pay matrix. A fixed remuneration is paid during the two-year probation; once probation ends, the full scale plus DA, HRA, RGHS medical cover and pension benefits bring in-hand pay to roughly ₹55,000–65,000/month. (2026 estimate — check the advertisement for the exact level and figures.) The figures above rest on the Rajasthan 7th pay matrix, which is what applies as of 16 August 2026. The Terms of Reference of the 8th Central Pay Commission were approved on 28 October 2025 and it must report within 18 months of its constitution. State governments normally adopt a Central Pay Commission with modifications, and later than the Centre does — so Rajasthan pay will be revised too, though by how much and when is not yet settled.

8 The good parts · The challenges

The good parts

- A path to becoming a government engineer with just a three-year diploma after Class 10 — no B.Tech expense needed
- Good pay right at entry level, plus pension, medical cover and the standing of a technical post
- The solid satisfaction of seeing roads, schools and water schemes take shape in your own district, and a clear path up to Assistant Engineer

The challenges

- Long hours at construction sites in heat and dust, and remote postings
- Holding on to integrity amid contractors and local pressure is challenging; the responsibility carried by your signature is heavy
- Recruitment comes only every few years and competition is very tough

9 Real-life journeys

Saroj Panwar

Junior Engineer (JEn), Rajasthan Urban Infrastructure Development Project (RUIDP)

Saroj Panwar, who lived in a dhani at Chak 2 KLM in the Rawla area of Sri Ganganagar district, studied by the light of a kerosene lamp. From Adarsh Vidya Niketan, Rawla, she scored 78 per cent in Class 10 and won the Gargi Award, then scored 83 per cent in Class 12 to top the Ghadsana sub-division. On 28 July 2015 she was selected as a Junior Engineer and joined RUIDP in Jaipur. She is now putting her younger sisters Pushpa and Priyanka and her brothers Pawan and Ajay Kumar through their studies.

Rajasthan Patrika, Sri Ganganagar edition — a serving woman Junior Engineer in a Rajasthan state organisation · <https://www.patrika.com/sri-ganganagar-news/sriganganagar-girl-become-jen-now-educating-brother-and-sister-3091891/>

Damodar Sharma

Began his career as a Junior Engineer at Jawahar Sagar Dam on the Chambal river; later founding Vice-Chancellor of Rajasthan Technical University

Born in 1941, Damodar Sharma took his bachelor's degree in civil engineering from MBM Engineering College, Jodhpur in 1964 and began his career as a junior engineer at the Jawahar Sagar Dam on the Chambal river. He went on to an M.Tech and a PhD from Jai Narain Vyas University, became a professor and Dean of Engineering, and served from 2006 to 2009 as the founding Vice-Chancellor of Rajasthan Technical University, Kota. His path shows that the Junior Engineer post is a beginning, not a ceiling.

Wikipedia — a verified Rajasthan figure whose career began in the Junior Engineer post; used because positive, individually profiled serving Rajasthan JEns are scarce in accessible online sources · https://en.wikipedia.org/wiki/Damodar_Sharma

10 Sources & further reading

1. Rajasthan Staff Selection Board (RSSB) — <https://rssb.rajasthan.gov.in/>
2. Rajasthan Recruitment Portal — One Time Registration (OTR) — <https://recruitment.rajasthan.gov.in/>
3. Department of Technical Education, Rajasthan (government polytechnics) — <https://dte.rajasthan.gov.in/>
4. Public Health Engineering Department, Rajasthan (Jal Jeevan Mission) — <https://phedwater.rajasthan.gov.in/>
5. National Career Service (NCS) — <https://www.ncs.gov.in/>
6. 8th Central Pay Commission — Cabinet approval of the Terms of Reference (PIB, 28 October 2025) — <https://www.pib.gov.in/PressReleasePage.aspx?PRID=2183289>
7. Rajasthan Rural Development and Panchayati Raj State and Subordinate Service Rules, 1998 (Department of Personnel, Rajasthan) — https://dop.rajasthan.gov.in/writereaddata/modulCategory/202308220503480178260ruraldevelopmentandpanchayat_merge_d.pdf



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