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The Biochemist is the officer of Rajasthan's Medical Education Department who runs the biochemistry laboratory of a medical college and its attached hospital. The post covers the biochemical testing of blood and other samples,...



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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

The Biochemist is the officer of Rajasthan's Medical Education Department who runs the biochemistry laboratory of a medical college and its attached hospital. The post covers the biochemical testing of blood and other samples, quality control and accuracy of those tests, management of laboratory instruments and reagents, supporting clinicians in interpreting results, and taking part in the laboratory training of MBBS and postgraduate students. Diabetes, kidney and liver disease, thyroid disorders and cardiac emergencies are all diagnosed on numbers, and those numbers come out of this laboratory. It is worth noting that this post belongs to the Medical Education Department and not to the Medical & Health Department — so the workplace is a medical college, not a district hospital or a primary health centre.

2 At a glance

Minimum qualification	M.Sc. (Medical) in Biochemistry — those are the words in both the Schedule to the 1962 service rules and the RPSC advertisement
Recruiting body	Rajasthan Public Service Commission (RPSC), Ajmer — department: Medical Education
Age limit	A maximum of 37 years — be careful, three years lower than the 40 that most Rajasthan posts carry (Service Rules 1962, rule 11) — the upper limit is relaxed for reserved categories and for women (detail below)
Starting salary	Level L-14 of the RAJASTHAN pay matrix, Grade Pay 5400 — a basic of ₹56,100 (per the 2024 advertisement)
Demand	100% by direct recruitment — there is no promotion quota on the junior post

3 What you need

INTERESTS

- The meeting point of chemistry and biology — the chemical processes running inside the body
- Contributing to diagnosis without being a clinician yourself
- Fine, exact, orderly laboratory work

ABILITIES

- Exceptional accuracy — one wrong value can lead a clinician to a wrong diagnosis
- An eye for the abnormal in a set of numbers
- An understanding of instruments and the ability to troubleshoot

KEY SKILLS

- Biochemical analysis and the running of auto-analysers
- Preparing reagents, calibration and standard solutions
- Records, laboratory information systems and the verification of reports
- Quality control, both internal and external
- Laboratory safety and the disposal of biomedical waste
- Training students and technicians — this is a medical college post, so teaching is part of the work

4 How to get there

- 1 Pass Class 12 in the science stream with biology and chemistry.
- 2 Take a graduation — a B.Sc. with biochemistry, chemistry, zoology, botany or related biological subjects. Some universities set their own subject conditions for entry to an M.Sc. (Medical), so read the prospectus in advance.
- 3 Take an M.Sc. (Medical) in Biochemistry. This is the most important point here: both the rule and the advertisement use the words "M.Sc. (Medical)", which is the medical-faculty degree awarded by medical colleges and health-science universities. An ordinary M.Sc. (Biochemistry) from a science faculty is a different degree. Treating the two as the same could be the most expensive mistake on this post — if you hold a science-faculty M.Sc., read that cycle's advertisement on equivalence before applying, and ask the Commission in writing if in doubt. This page cannot settle that question for you.

- 4 Watch the age, and bring it into your planning early: the maximum is 37, not 40. This post runs under its own 1962 service rules, whose age scheme differs from the general Rajasthan one. The higher limit of 42 applies only to posts whose minimum qualification is a D.M. or M.Ch. — this post is not one of them.
- 5 Apply when the RPSC advertisement appears. Note that a candidate in the final year of the qualifying course may also apply, but must produce proof of having obtained the qualification before the date the interview process begins — that relaxation was stated expressly in the 2024 advertisement.

MAIN EXAMS

- The post sits in the Schedule's "Non-Clinical Wing" as the junior post and is filled 100% by direct recruitment. That means there is no promotion quota at this level and the sanctioned posts come wholly through the Commission. The three posts above it are the opposite — all filled 100% by promotion. So this cadre has exactly one door into it, and this post is that door.
- The qualification text is short, and its difficulty lies in exactly that — "M.Sc. (Medical) in Biochemistry", with no alternative offered. Compare: many posts in this same list carry a long list of subjects or an "or equivalent" limb. The rule here has no such widening. So choosing the right kind of degree — medical faculty, not science faculty — is the decisive step towards this post, and that decision is taken when you enrol for the postgraduate course, not when the advertisement appears.
- It is worth repeating the age limit, because missing it is expensive. Rule 11 of the 1962 service rules says a candidate for direct recruitment to a junior post in the Schedule shall not have attained the age of 37. It was formerly 35 and was substituted with 37 on 25.06.2004. The 40-year limit that most Rajasthan posts carry does not apply here. A candidate who assumes 40 from experience of other recruitments quietly loses three years of opportunity.
- Selection follows the Commission's recruitment process and its detailed shape is given in that cycle's advertisement; the 1962 service rules schedule no fixed examination scheme, so no paper-by-paper detail is printed on this page. The 2024 advertisement refers to an interview process for this post.

- A practical caution: advertisements for this post are infrequent and the number of posts is small. Two were found in the course of this work — 2014 and 2024. So do not build a plan around it alone. The same M.Sc. (Medical) degree also carries into demonstrator and tutor recruitment at medical colleges, private and reference laboratories, research institutions, and the route to a Ph.D. and teaching.
- 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

- Rajasthan University of Health Sciences, Jaipur — the state health-sciences university under which the medical colleges sit — Jaipur, Rajasthan (<https://ruhsraj.org/>)
- SMS Medical College, Jaipur — M.Sc. (Medical) programmes including Biochemistry — Jaipur, Rajasthan
- Government medical colleges at Jodhpur, Udaipur, Bikaner, Ajmer and Kota — The divisional headquarters of Rajasthan (<https://ruhsraj.org/>)
- AIIMS Jodhpur — postgraduate study and research in biochemistry — Jodhpur, Rajasthan

ONLINE

- चिकित्सा शिक्षा विभाग, राजस्थान — This is the department the post belongs to — not the Medical & Health Department (<https://medicaleducation.rajasthan.gov.in/>)
- स्वयं (SWAYAM) एवं एन.पी.टी.ई.एल. — जैव रसायन एवं जीव विज्ञान के निःशुल्क पाठ्यक्रम — Government of India (<https://swayam.gov.in/>)
- National Medical Commission — recognised medical institutions and their courses — Check an institution's recognition before choosing a degree (<https://www.nmc.org.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)
- विभागीय सेवा नियम (कार्मिक विभाग) — पद की योग्यता व आयु मूल दस्तावेज़ में पढ़ें — The Department of Personnel publishes the service rules for every cadre. Read these before any coaching material — qualification, age and the method of recruitment are settled here and nowhere else. (<https://dop.rajasthan.gov.in/>)
- स्वयं (SWAYAM) — भारत सरकार के निःशुल्क ऑनलाइन कोर्स — Free (<https://swayam.gov.in/>)
- राष्ट्रीय डिजिटल पुस्तकालय (NDLI) — Free books and study material (<https://ndli.iitkgp.ac.in/>)
- एन.सी.ई.आर.टी. — निःशुल्क पाठ्यपुस्तकें — The foundation for general knowledge, maths and science (<https://ncert.nic.in/>)

FEES

The largest cost is the M.Sc. (Medical), and that is also where the largest saving is possible. At a government medical college the course costs far less than at a private institution, and in Rajasthan it is available at the government medical colleges affiliated to the health-sciences university, so a student from the state usually need not go outside it. Seats are few and admission is competitive, so graduation marks count directly here. The B.Sc. can be done at a government college for very little. One thing matters more than money: before enrolling, make certain the course you are joining really is an "M.Sc. (Medical)", because eligibility for this post rests on exactly that word. A similar-sounding science-faculty course may be cheaper and easier to enter, but it does not open this particular door. Scholarship and fee-reimbursement schemes apply for SC, ST, OBC and EWS students.

SCHOLARSHIPS

- Mukhyamantri Anuprati Coaching Yojana (free coaching, apply via SSO) (<https://sso.rajasthan.gov.in/signin>)
- Rajasthan Social Justice and Empowerment Dept scholarships (<https://sje.rajasthan.gov.in/>)
- National Scholarship Portal (NSP) (<https://scholarships.gov.in/>)
- Buddy4Study scholarship search (<https://www.buddy4study.com>)

6 What the work is like

WHERE YOU WORK

The biochemistry laboratories of government medical colleges and their attached hospitals — at Jaipur, Jodhpur, Udaipur, Bikaner, Ajmer, Kota and the newer medical colleges. The work is entirely inside the laboratory.

WORK CULTURE

The setting is both academic and clinical, and that is its distinctive feature. On one side you handle the hospital's steady stream of routine tests, including emergency samples whose reports cannot wait; on the other you live in a medical college environment, where students, postgraduate trainees and research run alongside. The work is not physically heavy but it is mentally demanding, because the margin for error is unusually small — a clinician sets a drug dose on the value you report, and a small slip travels all the way to the patient. That is why quality control is a permanent part of the daily routine here and not an added formality. One honest point: this post is invisible to the public. A patient knows the doctor who treated them, not the laboratory that made the diagnosis possible. For someone who needs visibility in their work it is not suitable; for someone who takes satisfaction in precision and quiet, it is a very good post.

WHO HIRES

- Medical Education Department, Rajasthan — the government medical colleges
- Private and reference laboratories and diagnostic chains
- The central laboratories of hospitals attached to medical colleges
- Research institutions and the analytical units of the pharmaceutical industry

DEMAND (2026)

The number of medical colleges in Rajasthan has grown in recent years and every college needs its own biochemistry laboratory, so the need for this cadre continues. But two things should be said plainly about this post. First, the cadre is small and the posts are few — only two advertisements were found in the course of this work, 2014 and 2024, so this is not a post to spend years waiting on. Second, the qualification is narrow, so the number of candidates who reach it is also limited — the shape of the competition differs from other posts, but the opportunities are fewer too. Against that is the advantage that the same M.Sc. (Medical) degree also carries into demonstrator and tutor recruitment at medical colleges, private and reference laboratories, research institutions, and the route to a Ph.D. and teaching. The sensible strategy is therefore to treat the degree as a career in itself and this government post as one opportunity within it, not as the whole plan. The number of posts describes the department's requirement, not your chances of selection. 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 Biochemist / Clinical Biochemist (junior post) — 100% direct recruitment; the only door into this cadre
- 2 Senior Biochemist — 100% by promotion, on seven years of experience in a laboratory attached to a teaching hospital or medical college
- 3 Superintending Biochemist — 100% by promotion, on five years as Senior Biochemist
- 4 Chief Biochemist — 100% by promotion, on eight years as Superintending Biochemist; the top of the cadre

EARNINGS

Starting	राजस्थान पे मैट्रिक्स स्तर एल-14 — मूल वेतन ₹56,100
Mid level	₹75,000 – ₹95,000 (भत्तों सहित, वरिष्ठ जैव रसायनज्ञ के स्तर पर)
Senior level	₹1,10,000 से अधिक (भत्तों सहित, अधीक्षक एवं मुख्य जैव रसायनज्ञ के स्तर पर)

The starting level is taken from the 2024 advertisement, which gives Pay Matrix Level L-14 (Grade Pay 5400) for this post; the first cell of L-14 is ₹56,100, and that same figure is already published on this portal's RAS page from an independent source, so it is written here having been matched against two sources. Note that this entry level equals the entry level of RAS — which is notable for a small and little-discussed cadre. During probation a fixed monthly pay applies under state government rules and the full scale begins afterwards, a point stated expressly in the 2024 advertisement. The mid-level and senior figures above are approximate and are not confirmed from any official pay statement; read them as a direction, not a promise. One further caution: level numbers do not mean the same thing in the state and at the Centre. L-14 of the Rajasthan matrix is ₹56,100, while Level 14 of the central 7th Pay Commission matrix is ₹1,44,200. So do not compare this number directly with the "Level" quoted for a central post — compare the rupee figures, not the level numbers. The starting figure is BASIC PAY, 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. The figures above rest on the Rajasthan 7th pay matrix, which is what applies as of 17 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

- 100% direct recruitment, and an entry pay at the same level as RAS entry (L-14)
- The academic setting of a medical college — teaching and research are part of the work
- The other side of a narrow qualification — the pool of candidates who reach this degree stays small
- The whole cadre above is filled by promotion, so the path onward is clear once you are in

The challenges

- A maximum age of 37 — three years below the usual 40, and this is the commonest slip
- No alternative in the qualification — it must be an M.Sc. (Medical); a science-faculty M.Sc. is a different degree
- A small cadre and infrequent advertisements — only the 2014 and 2024 ones were found
- The work is invisible to the public, even though the diagnosis rests on it

9 Sources & further reading

1. Department of Personnel, Rajasthan — Rajasthan Medical Service (Collegiate Branch) Rules, 1962 — https://dop.rajasthan.gov.in/writereaddata/modulCategory/202304211231503936041medical_merged.pdf
2. RPSC — Biochemist recruitment advertisement, dated 27.09.2024 — <https://rpsc.rajasthan.gov.in/Static/RecruitmentAdvertisements/4BBF9657F4AA487DB4977726150B1754.pdf>
3. Rajasthan Public Service Commission — advertisements — <https://rpsc.rajasthan.gov.in/advertisements>

4. Rajasthan University of Health Sciences, Jaipur — <https://ruhsraj.org/>
5. Rajasthan Staff Selection Board (official) — <https://rssb.rajasthan.gov.in/>
6. Department of Personnel, Rajasthan — service rules — <https://dop.rajasthan.gov.in/>
7. 8th Central Pay Commission — Cabinet approval of the Terms of Reference (PIB, 28 October 2025) — <https://www.pib.gov.in/PressReleasePage.aspx?PRID=2183289>

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