



SAARTHI - सारथी

करियर मार्गदर्शन पोर्टल · Career Guidance Portal

"सही मार्गदर्शन, उज्ज्वल भविष्य।"

करियर शीट · CAREER SHEET

वर्चुअल रियलिटी इंजीनियर

Virtual Reality (VR) engineers build immersive 3D experiences users can step 'inside' with a headset — increasingly used in gaming, education, healthcare, defence and industrial training.



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-4694

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

Virtual Reality (VR) engineers build immersive 3D experiences users can step 'inside' with a headset — increasingly used in gaming, education, healthcare, defence and industrial training.

2 At a glance

Minimum qualification	B.Tech/B.Sc in computer science/related field
Work mode	Desk/studio work; remote possible
Demand	High — rapid growth in AR/VR, gaming and simulation industries
Top earning	Senior VR specialists ₹2,00,000+ per month

3 What you need

INTERESTS

- Deep interest in computers, games and gadgets
- Liking for analysing problems
- Imagining 3D worlds and design

ABILITIES

- Programming and mathematical thinking
- Creative imagination
- Learning new technology fast

KEY SKILLS

- Development on Unity/Unreal Engine
- Programming languages like C#, C++
- Understanding of 3D modelling and animation
- Knowledge of AR/MR and headset hardware
- User experience (UX) design
- Fundamentals of AI and computer graphics

4 How to get there

- 1 Pass Class 12 Science with Physics, Chemistry and Maths
- 2 Do B.Tech/B.Sc/BCA in computer science/IT/game development
- 3 Enter via JEE Main/Advanced or REAP
- 4 Take online courses on Unity/Unreal and build small VR projects
- 5 Intern with gaming/XR startups with your portfolio
- 6 Optionally do M.Tech/specialisation in AR/VR

MAIN EXAMS

- JEE Main/Advanced (B.Tech admission)
- BITSAT (BITS Pilani)
- REAP — Rajasthan engineering admission
- GATE (M.Tech admission)

5 Where to study

GOVERNMENT INSTITUTES

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

PRIVATE INSTITUTES

- BITS Pilani — Pilani, Rajasthan (<https://www.bits-pilani.ac.in>)
- Amity University — Jaipur, Rajasthan
- Chandigarh University — Chandigarh

ONLINE

- SWAYAM/NPTEL (वर्चुअल रियलिटी कोर्स) — Online (<https://swayam.gov.in>)
- IGNOU (कंप्यूटर कोर्स) — Distance education

FEES

B.Tech fees in government institutes are about ₹50,000-1,50,000 per year; ₹1.5-5 lakh per year in private universities. Many VR courses are available online at low cost.

SCHOLARSHIPS

- National Scholarship Portal (<https://scholarships.gov.in>)
- Vidya Lakshmi Education Loan Portal (<https://www.vidyalakshmi.co.in>)
- Buddy4Study (<https://www.buddy4study.com>)

6 What the work is like

WHERE YOU WORK

Gaming and XR studios, IT companies, health and edtech firms, defence simulation, automotive and real-estate companies.

WORK CULTURE

Desk/studio work 5-6 days a week; extra hours near project deadlines; remote work is common. Opportunities exist for persons with disabilities too.

WHO HIRES

- | | |
|---|--|
| • IT companies like TCS and Infosys | • XR startups (AjnaLens, Trezi etc.) |
| • Gaming studios | • Global companies like Meta, Google and Microsoft |
| • Defence and aviation simulation companies | • Edtech and healthtech companies |

DEMAND (2026)

India's AR/VR market is expanding fast due to education, defence training and industrial simulation; skilled VR developers are still scarce, so demand is high.

7 Career growth

- 1 Junior VR/Unity developer
- 2 Virtual reality engineer
- 3 Senior XR developer/team lead
- 4 XR architect/product lead
- 5 Technical director/founder

EARNINGS

Starting	₹35,000-60,000
Mid level	₹80,000-1,50,000
Senior level	₹2,00,000-3,50,000

Monthly estimates (2026); depend on skills, portfolio and company. Higher in global/remote roles.

8 The good parts · The challenges

The good parts

- Career in a fast-growing technology of the future
- Interesting blend of creativity and technology
- Opportunities on portfolio strength even without elite degrees

The challenges

- Technology changes fast — continuous learning is essential
- Major VR companies in India are still limited to a few cities
- Long screen hours and deadline pressure

9 Real-life journeys

Pankaj Raut

Co-founder & CEO, AjnaLens

Mumbai's Pankaj Raut and his co-founders built AjnaLens, India's first home-grown AR/VR headset, used in defence, skill training and education. Starting with limited resources, he built one of the country's leading XR companies.

Circuit Digest · <https://circuitdigest.com/interview/pankaj-raut-ceo-of-dimensionnxg-on-ajnalens-ai-powered-smart-glasses>

Tithi Tewari

Co-founder, SmartVizX (Trezi VR platform)

After 15 years as an architect, Tithi Tewari built Trezi, an immersive VR platform that lets users walk inside building designs with a headset. More than half of India's top architecture firms use it.

YourStory (HerStory) · <https://yourstory.com/herstory/2020/04/woman-entrepreneur-vr-building-construction-industry>

10 Sources & further reading

1. Rajasthan Career Guidance Portal — Virtual Reality Engineer — <https://cg.rajasthan.gov.in/careerguidance/hi/career/%e0%a4%b5%e0%a4%b0%e0%a5%8d%e0%a4%9a%e0%a5%81%e0%a4%85%e0%a4%b2-%e0%a4%b0%e0%a4%bf%e0%a4%af%e0%a4%b2%e0%a4%bf%e0%a4%9f%e0%a5%80-%e0%a4%87%e0%a4%82%e0%a4%9c%e0%a5%80%e0%a4%a8%e0%a4%bf%e0%a4%af%e0%a4%b0/>
2. SWAYAM portal (NPTEL VR courses) — <https://swayam.gov.in>
3. IIT Jodhpur — <https://iitj.ac.in>
4. National Career Service (NCS) — <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.

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