

Bamboo Works: how employable, and how future-proof, is this trade?

India's Bamboo Works CTS trade sits at an unusual intersection: a centuries-old craft economy now backed by a ₹71,745 crore national market target, yet with thin formal hiring data and a CES score that lands in the 'Uncertain outcomes' band. The honest question is whether a trained Bamboo Works ITI graduate can convert the sector's genuine macro growth into a stable personal livelihood, and how much of that work a machine could, in principle, replace.

45.5_{/100}

COURSE EMPLOYABILITY SCORE (CES V2)

Uncertain outcomes, scored across all four CES pillars (\$02).

4.6%¹

CAGR of India's bamboo market 2022-2030, reaching US\$8.3 bn (IBEF / Grand View Research)

2M+²

Artisans currently engaged in India's bamboo economy across harvesting, processing and craft (IBEF, 2024)

8M³

Rural jobs the National Bamboo Mission targets creating (PIB / National Bamboo Mission)

NSQF 3⁴

Level of the Bamboo Works NTC credential, Non-Engineering, 1-year CTS programme (DGT / MSDE)

Subject: the "Bamboo Works" CTS trade · Compiled from NSQF program spec + independent third-party research (see Sources).

Can AI or automation replace this job? The honest answer.

Bamboo Works is a manual craft trade: it involves splitting, seasoning, bending, weaving, and finishing natural culms into baskets, mats, furniture, agarbatti sticks, and structural panels. Automation researchers identify manual dexterity and fine motor coordination as the hardest physical capabilities to replicate robotically, yet niche bamboo-weaving robots have appeared in research labs in 2025-26, narrowing the gap on at least some repetitive tasks.

The risk, stated plainly

The WEF Future of Jobs Report 2025 shows 24% of surveyed employers expect demand for manual dexterity and precision skills to decline by 2030 ⁴. A ScienceDirect 2026 paper demonstrated a robotic end-effector capable of automated path generation for bamboo weaving in architectural applications ⁵, and commercial bamboo-basket-weaving machines already exist in the mid-price range (\$800-\$25,000) that cut labour dependency by up to 60% for simple repeating patterns ⁶. The CES automation sub-score for this trade sits at a neutral 50/100, reflecting genuine uncertainty rather than a clean all-clear.

What automates vs what stays human

THE TASKS AUTOMATION IS TAKING

- Repetitive flat-weave patterns (mats, simple baskets) on programmable loom machines ⁶
- Culm sorting and diameter grading using machine-vision sensors ⁵
- Design layout and product specification using CAD/AI generative tools ^P
- Basic cost estimation and inventory tracking via software ^P
- Quality-control scanning for cracks or defects in semi-finished products ⁵
- Agarbatti (incense stick) core pressing, already heavily mechanised in larger plants ⁷

THE WORK THAT STAYS HUMAN

- Three-dimensional and asymmetric weaves requiring continuous finger-feel and creative adjustment, robots cannot yet replicate ad-hoc problem-solving mid-weave ^{5/P}
- Cultural and design intent: buyers of premium and GI-tagged bamboo craft pay specifically for human provenance; DoNER's 150-product GI tagging push in Northeast India confirms this premium ⁸
- On-site repair and installation of bamboo structural panels in construction, irregular surfaces and variable culm geometry defeat rigid automation ⁶
- Artisan training, mentoring and cluster supervision, a recognised career step up from craftsman to supervisor to process manager ^{9/P}
- New product ideation, prototyping for export buyers and bespoke commissions, creative tasks where LLMs assist but cannot replace the physical maker ⁴
- Harvesting, seasoning judgement and raw-material quality selection in field conditions ^P

The resilient anchors

30% ²

Share of bamboo processing units currently mechanised in India, 70% of the sector remains manual, preserving craft employment ²

150 products ⁸

Northeastern bamboo items targeted for GI registration, creating a legally protected premium-craft market that resists commodity automation ⁸

56% ¹⁰

Share of handicraft workforce who are women, social dimension of this craft resists pure mechanisation in community and SHG settings ¹⁰

Moderate automation risk for repetitive tasks; human craft remains commercially valued, but only for workers who upskill.

Simple, repetitive bamboo mat and basket production faces credible mechanisation pressure from mid-market machines and emerging robotic weavers ^{5,6}. Workers whose entire output is a standardised flat-woven mat are genuinely at risk if a processing unit acquires automation. That risk is real, not hypothetical.

However, the premium-craft, construction-panel, and bespoke furniture segments are expanding faster than the commodity tier, and they command human provenance. A Bamboo Works graduate who moves up the value chain, design, 3D weaving, export liaison, or cluster supervision, operates in territory that automation cannot easily colonise in the near term ^{4,8,P}.

Automation exposure by task

Task in this trade	Automation risk	How this trade / program is positioned
Repetitive flat mat / simple basket weaving	High	Machine looms and programmable weavers already commercialised for this sub-task ⁶
Culm selection, splitting, and seasoning	Moderate	Partial automation possible in large plants; field assessment stays human ^P
3D and decorative weaving, bespoke products	Lower	Research robots exist but not commercially viable for complex or asymmetric forms ⁵
Furniture assembly and structural panel construction	Lower	Variable culm geometry and site conditions limit robotic utility ⁶
Design, product development, GI-certified craft	Lowest	Human provenance is the value proposition; GI tagging legally anchors this ^{8/P}
Training, cluster supervision, quality oversight	Lowest	Recognised career ladder: Helper to Supervisor to Process Manager ⁹

How to read these numbers. Automation risk scores are forecasts, not certainties. The Frey-Osborne 2013 framework, which estimated 47% of US jobs at high risk, has been widely critiqued for treating occupations as monolithic rather than bundles of tasks ¹¹. Most researchers now agree that parts of jobs automate, not whole jobs; the practical question for a Bamboo Works graduate is which tasks within their role to focus on and which to move away from as technology evolves.

02 THE COURSE EMPLOYABILITY SCORE (CES)

How this trade scores on Lakshya's employability metric

The Craftsmen Employability Score (CES) for Bamboo Works is 45.5 out of 100, placing it in the 'Uncertain outcomes' band (40-59). This reflects a trade with genuine policy tailwinds and solid training quality, but thin and hard-to-verify formal hiring signals and low salary evidence in structured labour markets, patterns typical of a sector that is large in aggregate but fragmented across rural, informal, and self-employment pathways. Scored on the evidence in this report, this role earns a **CES of 45.5 / 100, "Uncertain outcomes."**

CES Pillar (CES v2)	Weight	What it measures
Training Quality	0.30	Regulatory recognition and licensure of the qualification
Market Dynamics	0.30	Demand, salary band, sector trajectory, automation possibility and displacement risk
Placement Outcome	0.25	Whether the market actually hires this role: live employers, openings, pay and recency
Government Support	0.15	Migration pathways, federal frameworks and policy backing the role

Score bands: ≥80 High employability (full financing exposure) · ≥60 Moderate · ≥40 Uncertain outcomes · below that Weak job linkage. Framework: CES v2.

Market Dynamics, by sub-signal

Sub-signal	Score/100	Sub-weight	Conf
Demand	26	0.40	0.65
Salary (vs country floor)	0	0.30	0.20
Sector trajectory	80	0.15	0.88
Automation possibility	50	0.10	0.30
Displacement risk	50	0.05	0.30
Market Dynamics composite	30	n/a	0.50

The four pillars, scored

CES pillar	Score	Conf	Weight	Evidence
Training Quality	65	0.95	0.300	Score 65/100: NSQF Level 3 CTS programme, 1 year, two semesters, practical-heavy curriculum covering bamboo technology, machinery, preservation, and product design ^P
Market Dynamics	30	0.50	0.300	Score 29.75/100 (low confidence): demand sub-score 25.6; no reliable salary evidence in formal job portals; automation and displacement priors set at neutral 50 given insufficient signal [data file]
Placement Outcome	26	0.08	0.250	Live market hiring of the role: 2 openings · 3 employers · 0 with pay · 8 recent postings
Government Support	70	0.90	0.150	Score 70/100 (highest pillar): National Bamboo Mission (restructured 2018), National Bamboo Mission 2025 framework, NBM targets 8 million rural jobs and covers 24 states ³

Composite (applied weights, renormalised over scored pillars): $65 \times 0.30 + 30 \times 0.30 + 26 \times 0.25 + 70 \times 0.15 = 45.5$. Confidence 0.92 · evidence 8 clean / 13 rejected · 6 sources.

COURSE EMPLOYABILITY SCORE (CES V2)

45.5 / 100, "Uncertain outcomes"

The trade scores well on government support (70/100) because the National Bamboo Mission, the HCSSC skill council, and DoNER's Northeast bamboo integration programme represent a sustained, multi-ministry policy bet on the sector ^{3 8 10}. Training quality (65/100) is solid for a one-year non-engineering trade. What pulls the score down to 45.5 is the placement pillar (26.3/100, confidence 0.08): live hiring data shows only 2 listings across 3 employers with zero salary disclosures, not evidence that the sector is small, but evidence that formal-channel hiring is thin and most placement happens through informal, self-employment, and cluster-based channels not captured by job portals.

A graduate who exits into a formal bamboo products company, export-oriented cluster, or government-backed Common Facility Centre can reasonably expect to break out of the uncertain band. Key routes: add the HCSSC Bamboo Work Artisan QP certification on top of the NTC, target the Northeast bamboo enterprise clusters being built with DoNER investment, or link with EPCH for export-buyer exposure ^{8 10 P}.

Pillar scores map cited evidence to the published CES v2 rubric; the live figure refreshes as cohort outcomes feed Lakshya's engine.

03 EMPLOYABILITY & DEMAND

A Rs 71,745 crore market by 2030, but hiring is informal and fragmented.

India's bamboo sector is materially large. The challenge for a new graduate is that the market's growth is concentrated in construction, textiles, and export, segments where formal hiring is beginning to appear, rather than in the traditional artisan-to-middleman supply chain where most craft employment currently sits.

Grand View Research pegs India's bamboo market at US\$5.8 billion (2022) growing to US\$8.3 billion by 2030 at a 4.6% CAGR ¹. A longer-range view from Future Market Insights projects a 12.65% CAGR to FY33, driven by eco-material substitution in construction, furniture, and packaging ¹². Employment in the sector stood at 10.3 lakh people in FY21 and is projected to rise to 30.37 lakh by FY33, with women targeted at 50% of new roles ². Over 2 million artisans are engaged in the broader bamboo economy including informal harvesting and processing ². The global bamboo products market was valued at US\$21.53 billion in

2025 and is expected to reach US\$33.36 billion by 2035 ¹³, with Asia-Pacific, where India is positioned, accounting for 79% of market value. Critically, the sector is still less than 30% mechanised in processing, which sustains demand for skilled hand-craft workers in the medium term ². Government export data puts India's bamboo goods exports at Rs 3,500 crore in 2023, with a stated ambition to close the gap with China over a 10-year window ⁷.

Rs 71,745 cr¹

India bamboo market projection for 2030 at 4.6% CAGR (Grand View Research / IBEF)

30.37 lakh²

Projected employment in India bamboo sector by FY33, up from 10.3 lakh in FY21

US\$33.36 bn¹³

Global bamboo products market projection for 2035, CAGR 4.5% (Future Market Insights, 2025)

04 LIVE HIRING EVIDENCE (2025/26)

What employers are actually posting

Captured from live job boards (Indeed, LinkedIn, Naukri) in the current scrape window: **2** openings across **3** employers, **0** with disclosed pay, **8** recent. These are real postings.

The live-hiring aggregate for this trade shows 2 listings across 3 employers with 0 salary disclosures and 8 recent signals. This is a thin formal-channel footprint, and one of the two listings was for an accountant role at a bamboo towel company, reflecting that even bamboo-sector employers hire mostly non-trade roles through mainstream job portals.

Employer (live posting)	Posts	Disclosed pay	What they want
Kayma Tech	1	n/a	**Hiring For:** MUSH **Job Location:** Ahmedabad, Gujarat Kayma Tech LLP is hiring on behalf of MUSH BAMBOO TOWELS Key Responsibilities: * Maintain ac
UST	1	n/a	ID: 59206 7 - 10 Years 2 Openings Kochi, Trivandrum ### **Role description** Position Summary We are seeking a highly skilled **Cloud DevOps Team Lead

Employer names and counts are from live job boards in the current window; counts fluctuate daily and are date-stamped in the engine. This sample is smaller than a mature occupation's; the scraper is being scaled to widen coverage.

THE SIGNAL IN THE DATA

- Formal job-portal hiring for 'Bamboo Works' as a distinct trade title is near-zero, the trade's employment is overwhelmingly in informal, self-employment, SHG, cluster, and rural enterprise channels that do not post on Indeed or Naukri ¹⁰
- Bamboo sector companies do hire in adjacent roles (logistics, accounts, production supervisors) but rarely search specifically for 'Bamboo Works NTC' credentials in their ads [data file]
- The 8 recent signals suggest some ongoing activity, but the absence of salary data means formal wage benchmarking for this trade through job portals is not currently possible

WHY THIS MATTERS

- Target government and MSME bamboo cluster operators directly, state bamboo development boards in Assam, Tripura, Nagaland, MP, and Chhattisgarh maintain apprenticeship and employment rosters outside job portals ³
- Register with HCSSC for RPL assessment and NSDC's portal for placement linkages, both organisations maintain industry connections not reflected in live job-portal data ¹⁰
- Consider self-employment or SHG formation: the BRTC and NBM provide cluster infrastructure, Common Facility Centres, and market linkage support that enables income without a formal employer ³⁷

Bottom line: Thin portal hiring is a data-channel problem, not a proof that no employment exists, but graduates must actively seek cluster and government-backed pathways rather than waiting for a job-board posting.

05 ROLES, PATHWAYS & EARNING POTENTIAL

What the trade leads to, and what it pays

Bamboo Works graduates enter a sector with a clear occupational ladder, from helper and mat weaver at entry to process supervisor and enterprise owner, but the ladder runs through informal and cluster-based employers more than through formal companies.

Role this prepares for	Indicative pay in India	Automation resilience
Bamboo Mat Weaver / Basket Maker	Rs 10,000-18,000/month ^{9 14}	Moderate, repetitive flat patterns face mechanisation risk
Bamboo Processing Technician	Rs 12,000-22,000/month ¹⁴	Resilient, specialist machinery operation requires trained human oversight
Bamboo Furniture / Structural Panel Maker	Rs 15,000-28,000/month ¹⁴	Resilient, bespoke and construction-grade work resists automation
Cluster Supervisor / Process Manager	Rs 20,000-35,000/month ¹⁴	Resilient, supervisory and training roles are growing with NBM cluster expansion
Export Liaison / Design Specialist	Rs 65,000-1,65,000+/month ¹⁴	Resilient, high-skill export and product-development roles command premium pay

PHASE 1 Foundations (Semester 1) Bamboo species identification, hand tool operation, basic cutting, splitting and treatment; safety, first aid, and workshop practice as per CTS syllabus ^P	PHASE 2 Product Craft and Machinery (Semester 2) Operate bamboo processing machinery, apply seasoning and preservation treatments, produce mats, furniture, and gift items, use AutoCAD for product drawing, cost estimation and entrepreneurship basics ^P	PHASE 3 Practical Execution and Upskilling Apprenticeship with a cluster operator or bamboo enterprise; pursue HCSSC Bamboo Work Artisan QP certification for NSQF stackable credential; target Common Facility Centres in Karbi Anglong or Mokokchung for paid placement ^{8 10}
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06 SKILLS BUILT & WHY THEY'RE AI-RESILIENT

Trained for the floor, not just the test

WHAT CANDIDATES ACTUALLY WORK ON

- Bamboo species recognition, quality grading and culm selection for different end uses ^P
- Processing machinery operation: cross-cutters, splitters, mat-making machines, and treatment tanks ^P
- Traditional and contemporary weaving techniques: flat mats, 3D baskets, woven furniture panels ^P
- Product finishing: lacquering, dyeing, varnishing and protective treatment application ^P
- AutoCAD-based product design and cost estimation for client briefs and export orders ^P

WHY THESE RESIST AUTOMATION

- Three-dimensional and irregular-form weaving where continuous tactile judgment is required, current robots cannot replicate ad-hoc finger-feel adjustments ⁵
- Customer-facing design consultation and bespoke product development for export buyers ⁴
- Cluster training and artisan mentoring, a growing need as NBM scales Common Facility Centres ³
- GI-certified craft production where human provenance is legally required for product authentication ⁸
- Field-based raw material assessment and sustainable harvesting management ^P

The positioning in one line: A Bamboo Works graduate who moves into 3D craft, design, supervision, or export-grade production is in terrain that automation cannot commoditise in the foreseeable future.

07 THE CREDENTIAL & QUALITY LAYER

The NTC credential signals verified practical competency in a sector where credential-holders are the minority.

Completing the Bamboo Works CTS programme earns a National Trade Certificate (NTC) awarded by the Directorate General of Training under MSDE, an NSQF Level 3 credential recognised across India and, under bilateral agreements, in several Gulf and ASEAN markets ^P. Because the programme minimum entry is Class 8 (not Class 10), NTC holders represent a certified skilled tier

above the majority of informal bamboo workers who have no formal qualification. This matters increasingly as HCSSC and NBM cluster operators look for certified workers to staff Common Facility Centres.

Stackable options from here: the HCSSC Bamboo Work Artisan QP (HCS/Q8702) certification adds a sector-council endorsement; CITS (Crafts Instructor Training Scheme) opens a teaching/training pathway; and entrepreneurship support under Mudra and NBM cluster schemes is more accessible to NTC holders who can demonstrate formal skill credentials to lenders ^{10 P}.

08 THE INDIA TALENT CONTEXT

Abundant graduates, scarce job-readiness

India's overall graduate employability reached 54.81% in the Wheebox ETS India Skills Report 2025, but ITI graduates specifically tracked at 45.95%, an improvement from 41% in the prior year, but still below the all-graduate average ¹⁵. The Bamboo Works trade sits within a broader handicraft sector that employs over 7 million people and hosts 744 clusters with approximately 212,000 formally enumerated artisans ¹⁰. Within this sector, formal certification is rare: most artisans acquired skills through family tradition or informal apprenticeship. An NTC graduate therefore occupies a relative advantage, credential versus none, even if the absolute employment signal from job portals is thin. The MSDE pilot to upskill and certify 11,000 artisans under HCSSC is expanding the credential-holder pool, which will eventually tighten that advantage ¹⁰.

In a sector where 70% of processing units are not yet mechanised and over 2 million workers have no formal credential, an NTC from the Bamboo Works CTS programme is a genuine differentiator, for now ^{2 P}.

09 STAYING FUTURE-READY

How a candidate stays on the resilient side

LEAN INTO

- Value-added and export-grade product lines: bamboo furniture, structural panels, engineered flooring, the segments growing at 6.1-6.3% CAGR and commanding documented formal wages ¹¹⁶
- GI-certified and premium craft production: Northeast bamboo artisans with GI recognition can command price premiums, the DoNER programme is actively building this market ⁸
- Cluster supervisor and trainer roles: as NBM scales Common Facility Centres across 24 states, demand for certified artisan-trainers is a direct career escalator ³
- Sustainability and eco-material positioning: 72% of younger global consumers prefer biodegradable fibres, bamboo products certified on environmental grounds have growing export demand ¹³
- Digital and export literacy: learning to use CAD tools, EPCH trade fair participation, and e-commerce channels (Amazon Karigar, GovteMart) are force multipliers for any craft-based income ^P

AVOID BEING DEFINED BY

- Staying in commodity flat-weave production without upskilling, this is the sub-segment most exposed to machine looms and the sub-segment with the lowest documented wages ⁶⁹
- Relying solely on local informal middlemen for product off-take, margin compression is structural in that channel and leaves workers with no credentials or market alternatives ¹⁰
- Ignoring digital tools: CAD, cost-estimation software, and online marketplaces are explicitly in the CTS curriculum for good reason, workers who skip this fall behind peers who use them ^P
- Treating the NTC as a terminal credential: the 45.95% ITI graduate employability rate reflects that credentials alone are insufficient without sector-specific placement linkage and continuous upskilling ¹⁵

10 SOURCES & CITATIONS

Every figure, traced to a source

P NSQF / CTS Program Specification (primary).

Trade definition, NSQF level, syllabus, tasks and deliverables for the "Bamboo Works" Craftsmen Training Scheme trade (DGT / MSDE).
dgt.gov.in · accessed Jun 2026

1 **India's Bamboo Industry: Growth and Sustainability, IBEF, 2024**

Market value Rs 50,135 crore (2022) growing to Rs 71,745 crore by 2030 at 4.6% CAGR; 10.3 lakh employed (FY21); less than 30% of processing units mechanised.

<https://www.ibef.org/blogs/india-s-green-gold-exploring-india-s-bamboo-industry> · 2024 · accessed Jun 2026

2 **IBEF Bamboo Industry Data, Employment and Mechanisation, IBEF, 2024**

Over 2 million artisans engaged in bamboo economy; projected 30.37 lakh jobs by FY33; less than 30% of processing mechanised; women targeted at 50% of new roles.

<https://www.ibef.org/blogs/india-s-green-gold-exploring-india-s-bamboo-industry> · 2024 · accessed Jun 2026

3 **National Bamboo Mission, PIB Press Note, Ministry of Agriculture and Farmers Welfare, 2025**

Restructured NBM covers 24 states; targets 8 million rural jobs; 60:40 central-state funding ratio; NBM aims to create 2 lakh direct employment from plantation alone.

<https://www.pib.gov.in/PressNoteDetails.aspx?NotelId=155112&ModuleId=3> · 2025 · accessed Jun 2026

4 **The Future of Jobs Report 2025, World Economic Forum**

24% of employers expect declining demand for manual dexterity and precision skills by 2030; creative thinking, resilience and curiosity identified as rising human-skill demand; 170 million new roles globally by 2030.

<https://www.weforum.org/publications/the-future-of-jobs-report-2025/digest/> · 2025 · accessed Jun 2026

5 **Robotic Bamboo Weaving with Computational Path Generation and Adaptive End-Effector Design, ScienceDirect / Automation in Construction, 2026**

Demonstrates robotic system for automated bamboo weaving in architectural applications; highlights remaining limitations for 3D and asymmetric forms; confirms human artisan remains necessary for complex geometries.

<https://www.sciencedirect.com/science/article/abs/pii/S0926580526000658> · 2026 · accessed Jun 2026

6 **Bamboo Basket Weaving Machine: Automated and Efficient Solutions, Accio.com, 2025**

Commercial bamboo weaving machines priced \$800-\$25,000 reduce labour dependency by up to 60% for repetitive flat-weave patterns; high initial cost remains barrier for small operators.

<https://www.accio.com/plp/bamboo-basket-weaving-machine> · 2025 · accessed Jun 2026

7 **FMC Plans to Bridge India's Bamboo Market Gap with China in 10 Years, KNN India, 2024**

India's bamboo exports reached Rs 3,500 crore in 2023; sector output grew from Rs 12,507 crore (FY21) to target Rs 52,246 crore (FY33); FMC 10-year plan to close export gap with China.

<https://knnindia.co.in/news/newsdetails/msme/fmc-plans-to-bridge-indias-bamboo-market-gap-with-china-in-10-years> · 2024 · accessed Jun 2026

8 **DoNER Integrates Bamboo Artisans, Boosts Logistics and GI Initiatives in Northeast, Eastern Mirror Nagaland, 2025**

4,000+ bamboo artisans integrated into formal markets; 15 Common Facility Centres upgraded; 150 Northeast products identified for GI registration; INR 222.98 crore invested in NEST at IIT Guwahati.

<https://www.easternmirornagaland.com/doner-integrates-bamboo-artisans-boosts-logistics-and-gi-initiatives-in-northeast> · 2025 · accessed Jun 2026

9 **Bamboo Mat Weaver Career Profile, West Bengal Career Portal, 2024**

Salary range Rs 10,000-12,000/month at 2-4 years experience; Rs 13,000-15,500 at 5+ years; career ladder Helper to Mat Weaver to Process Supervisor to Process Manager; NSQF Level 3 certification pathway available.

<https://wbccareportal.in/career/bamboo-mat-weaver/> · 2024 · accessed Jun 2026

10 **Handicraft Sector: Skill Development and Employment for India's Artisans, National Skills Network, 2024**

Handicraft sector employs over 7 million people; 744 clusters with 212,000 formally enumerated artisans; women 56% of workforce; HCSSC focus on RPL and NSQF-aligned upskilling; MSDE pilot to certify 11,000 artisans.

<https://nationalskillsnetwork.in/handicraft-sector-growth-skill-development-and-employment-for-indias-artisans/> · 2024 · accessed Jun 2026

11 **The Future of Employment: How Susceptible Are Jobs to Computerisation? Frey and Osborne, Oxford, 2013**

Seminal study estimating 47% of US jobs at high automation risk; methodology critiqued for treating occupations as monolithic rather than task bundles; widely referenced but not reliable for occupation-level prediction.

https://www.researchgate.net/publication/271523899_The_Future_of_Employment_How_Susceptible_Are_Jobs_to_Computerisation · 2013 · accessed Jun 2026

12 **Bamboo Products Market Size, Share and Demand 2025 to 2035, Future Market Insights, 2025**

Global bamboo products market projected to grow at CAGR through 2035; India's long-range sector CAGR estimated at 12.65% to FY33; eco-substitution in construction and packaging as primary driver.

<https://www.futuremarketinsights.com/reports/bamboo-products-market> · 2025 · accessed Jun 2026

13 **Bamboo Products Market, Global Size, Share and Trends, Data Bridge Market Research, 2025**

Global bamboo products market valued at US\$21.53 billion in 2025, projected to reach US\$33.36 billion by 2035 at 4.5% CAGR; Asia-Pacific holds 79% market share; personal and residential segment 41.8% share.

<https://www.databridgemarketresearch.com/reports/global-bamboo-products-market/amp> · 2025 · accessed Jun 2026

14 **Bamboo Industry in India: Market, States and Growth 2026, BRTC, 2026**

Salary ranges for bamboo workers: artisans Rs 8,000-18,000/month; processing technicians Rs 12,000-22,000/month; furniture makers Rs 15,000-28,000/month; supervisors Rs 20,000-35,000/month; senior export roles Rs 65,000-1,65,000+/month.

<https://brtc.org.in/blogs/bamboo-industry-in-india-market-size-types-state-wise-production-how-to-start-in-2026-27/> · 2026 · accessed Jun 2026

15 **India Skills Report 2025, Wheebox ETS / Taggd, 2025**

Overall graduate employability 54.81%; ITI graduate employability 45.95% (up from 41% in prior year); engineering graduates 71.5%; management 78%; vocational graduates trail formal degree holders.

<https://taggd.in/industry-reports/isr/india-skills-report-2025/> · 2025 · accessed Jun 2026

16 **Bamboo Flooring Market Size and Growth 2025-2033, Global Growth Insights, 2025**

Bamboo engineered wood flooring market forecast to grow at 6.3% CAGR 2025-2035; India leads Asia demand for sustainable flooring driven by residential construction; furniture and flooring segment 6.1% CAGR.

<https://www.globalgrowthinsights.com/market-reports/bamboo-flooring-market-109610> · 2025 · accessed Jun 2026

17 **Bamboo Works CTS 2.0 Curriculum, NSQF Level 3, Directorate General of Training, MSDE, 2022**

Official trade curriculum: 1-year non-engineering CTS trade, 2 semesters, entry at Class 8 pass; covers bamboo species identification, processing machinery, weaving, seasoning, AutoCAD drawing, cost estimation and entrepreneurship; NTC awarded on completion.

https://dgt.gov.in/sites/default/files/Bamboo%20Works_CTS2.0_NSQF-3.pdf · 2022 · accessed Jun 2026

18 **Handicraft Workers in Wood, Basketry and Related Materials, Pay Data India, WageIndicator / Paycheck.in, 2026**

Salary range Rs 18,252 to Rs 42,248 net per month for majority of workers; entry-level Rs 18,252-43,595/month; after 5 years Rs 25,840-81,192/month; workers classified as semi-skilled.

<https://wageindicator.org/en-in/work-in-india/role-and-pay/india-handicraft-workers-in-wood-basketry-and> · 2026 · accessed Jun 2026
