Scarcity of Labour in the Market: A Comprehensive Research Study

Hasini.S.Kolla[1]* and Laasyapriya.CM[2]

[1]*Student (II Year BBA), Department of Management, Transcend Degree College, Bangalore, Karnataka, India*

[2]*Student (I Year B.Com), Department of Commerce, Transcend Degree College, Bangalore, Karnataka, India*

**Corresponding Author Email:* kolla.hasini58@gmail.com

Abstract

Modern labour markets just aren't keeping up the need for workers keeps outpacing how many people are willing or able to work, even when wages rise. For a long time, experts thought this shortage was just a passing problem that came and went with the ups and downs of the economy. But recent research, like Groiss and Sondermann (2024), argues labour scarcity is now a permanent part of the landscape. This paper digs into why the system is failing to connect people and jobs, looking at ageing populations, rapid changes in technology, and education that can't keep up. Drawing from global research and theory, the study traces the roots of the mismatch and offers a plan for a smarter, more flexible labour market.

***Keywords**: Labour Scarcity, Labour Market Mismatch, Skill Gap, Ageing Population, Technological Change, Workforce Shortage, Labour Market Flexibility*

1. Introduction

For decades, economists have made labour scarcity a central part of their work, always raising the question: how long can we keep things running if we don't have enough people to do the jobs? Back in the day, labour shortages were viewed as temporary a natural hiccup whenever the economy boomed or when wages got stuck. Today, the gap is persistent and more frustrating: there are still plenty of people looking for work, yet businesses leave jobs open because they can't find the right fit. This isn't just a matter of numbers it's a deeper, structural flaw. On paper, there are open jobs and unemployed workers, but in reality, the two rarely meet.

Arrow and Capron's classic work (1959) pointed out that these mismatches, or "dynamic shortages," are often about time delays. When things change, the market just doesn't keep up. Lately, those delays got worse thanks to globalisation and a relentless pace of technological advancement. After the pandemic, the issue took a new turn. People's attitudes about work changed, and fewer people felt like joining or staying in the workforce. Economists talk about "participation elasticity" as a way to explain how sensitive people are to the push and pull of the job market sometimes incentives change, and suddenly people walk away from jobs for reasons that go beyond pay.

When you look through the research, you'll see the conversation has grown more complex. Starting with old models of labour surpluses, analysis now focuses on specific industries and how shortages take hold and never seem to lift. Groiss and Sondermann (2024) argue that, especially in high-tech or fast-growing industries, labour shortages are a fixed part of the economy. They found that certain companies advertise for workers who basically don't exist people just don't have those skill sets. Lisa Feist (2024) at the International Labour

Organization adds another layer: the workforce is ageing, and after global crises, many people who left the job market never came back. She calls this "demographic contraction," pointing out that as the group of working-age people shrinks, so does any hope for easy economic growth.

The OECD's Economic Outlook (2024) paints a striking picture. There are huge shortages in places like healthcare, tech, and skilled trades. They highlight "skill polarization" the middle ground jobs are vanishing, jobs for experts and for tough, manual labour keep rising, but routine work is drying up. Looking at countries like India, the shift is dramatic: once there were too many rural workers; now, there aren't enough. Patavardhan and Leelavathi (2013) talk about how rural areas lost labour due to migration and changing dreams. Gunabhagya et al. (2017) add that not enough hands at harvest time leave crops in the fields, threatening both food supply and the livelihood of farming communities. The bottom line: this isn't just one industry or country scarcity is everywhere.

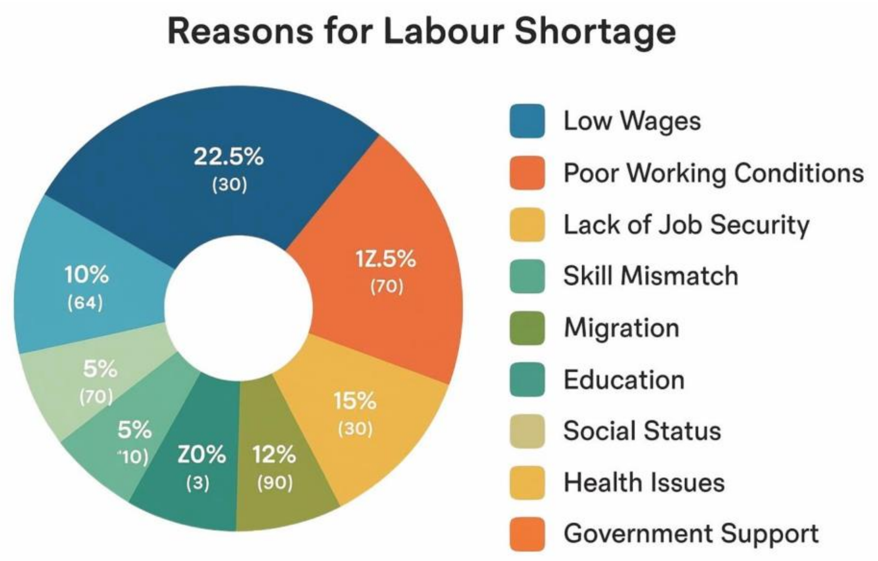

Chart 1 The chart shows the main reasons for labour shortage and how much each factor contributes.

1. The biggest cause is low wages (22.5%), meaning many workers are not willing to work for insufficient pay.
2. Poor working conditions (17.5%) and lack of job security (15%) are also major factors, showing that stability and safety matter a lot.
3. Migration (12%) and education (10%) contribute moderately, indicating workforce movement and qualifications play a role.
4. Skill mismatch (20%) is another significant issue, suggesting that workers' skills don't match job requirements.
5. Smaller factors include social status (5%) and health issues (5%).

Note: Above mentioned data have been collected and presented according to reasons for shortage of labour.

2. Review of Literature

Over time, the understanding of labour scarcity has shifted significantly. Earlier, it was mostly seen as a temporary issue that appeared during economic booms and corrected itself over time. Foundational work by Kenneth J. Arrow and William M. Capron (1959) introduced the idea that labour shortages often arise because markets take time to adjust. In simple terms, jobs and workers don't always connect immediately, leading to short-term mismatches.

More recent research suggests that this problem is no longer temporary. Studies by Michael Groiss and David Sondermann (2024) indicate that labour shortages are becoming a long-term feature, especially in industries that rely on advanced skills. They highlight how companies are increasingly looking for highly specific capabilities that many workers simply don't have yet. Adding to this, Lisa Feist (2024), in her work with the International Labour Organisation, explains how ageing populations and declining participation in the workforce are reducing the overall supply of labour.

The OECD (2024) brings another perspective by discussing "skill polarisation," where middle-level jobs are gradually disappearing, while demand grows at both the high-skill and low-skill ends. In the Indian context, researchers like Patavardhan and Leelavathi D. S. (2013) point out that migration from rural areas has reduced the availability of agricultural labour. Similarly, Gunabhagya et al. (2017) highlight how this shortage directly affects agricultural productivity.

While these studies explain structural causes such as demographics, migration, and skills, they pay less attention to the human side of the issue how workers think, what they prefer, and why they choose certain jobs over others. This study attempts to bridge that gap by focusing not just on economic factors but also on worker mentality.

3. Objectives of the Study

The main aim of this research is to understand why labour scarcity continues to exist despite the presence of people willing to work. The study focuses on identifying both structural and behavioural reasons behind this issue. It seeks to examine how factors like skill gaps, technological advancements, and demographic changes influence labour availability.

Another important objective is to understand the mindset of workers their expectations regarding wages, working conditions, job security, and flexibility. The research also looks into how migration, education systems, and labour market policies contribute to the mismatch between jobs and workers.

Overall, the study aims to provide a clearer picture of how labour markets function today and to suggest ways to make them more adaptable, efficient, and aligned with the needs of both employers and workers.

4. Problem Statement

In today's economy, a clear contradiction exists: many people are searching for jobs, yet employers still struggle to find suitable workers. This highlights a deeper issue within the labour market. The problem is not simply a shortage of workers, but a mismatch between what employers need and what workers can or are willing to offer.

This mismatch is influenced by several factors. Workers are increasingly unwilling to accept jobs with low pay, poor working conditions, or little job security. At the same time, rapid technological changes demand new skills that many workers have not been trained for. Education systems often fail to keep up with these changes, making the gap even wider.

Therefore, the central problem addressed in this study is understanding why labour scarcity persists even when a workforce is available. It also seeks to explore how both structural factors and worker attitudes contribute to this imbalance, with the goal of finding practical solutions to improve the connection between jobs and workers.

5. Research Methodology

This study follows a descriptive and analytical approach, using **secondary data** collected from research papers, journals, and reports by organisations such as the International Labour Organisation and the OECD. A **qualitative** approach is used to understand key factors like skill gaps, demographic changes, and worker behaviour. The study also compares rural and urban labour patterns to get a clearer picture of how labour mismatches occur in different settings.

6. Data Analysis

6.1 The Structural Drivers of Modern Scarcity

So, why are there not enough workers? It's a mix of big forces colliding at once. For starters, birth rates are falling and people are living longer. This leaves fewer young people starting careers while retirees keep growing in number. It's hitting developed countries, sure, but now developing nations are facing the same thing. There just aren't enough people coming up through the ranks.

Then there's the skills gap. Technology moves at full speed, but training programs and schools don't. By the time someone graduates or finishes a course, their skills might already be out of date. On top of that, lots of people just can't or won't move for work. High costs of living, family reasons, or bad transportation keep them stuck where they are. So, even if some cities or regions are flooded with people, they do nothing to help places desperate for workers. Migration and urbanisation make things a bit messier. When people move for work, they sometimes solve a shortage where they land but leave a gap behind them. A country losing lots of skilled workers "brain drain" only finds it harder to recover. Add to that a mess of rules and rigid workplace cultures; wages don't always adjust fast enough, and old-fashioned job expectations keep the system from catching up with reality.

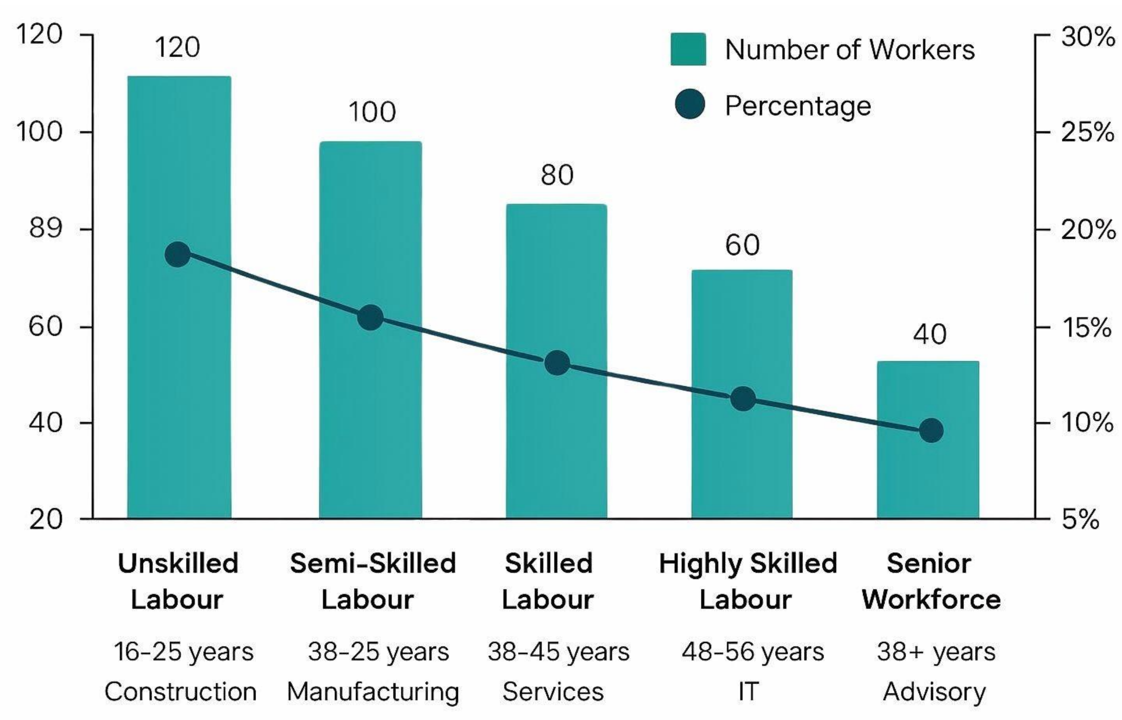

Chart 2 The chart shows that there are more workers in lower-skill jobs, while the numbers gradually decrease as the skill level increases. Unskilled labour makes up the largest group, whereas highly skilled and senior roles have fewer workers. This suggests that while basic jobs have enough workforce, there is a noticeable shortage of people with advanced skills in the labour market.

6.2 The Macroeconomic and Social Consequences

Not having enough workers throws a wrench into the whole economy. Wages rise, which sounds great, but then businesses raise prices to cover costs. Pretty soon, earning more money doesn't stretch further because everything is more expensive.

Businesses really struggle to get things done. They leave roles empty, turn down projects, and let opportunities slip away because the right people just aren't there. This drags down productivity.

As hiring gets harder, companies turn to machines and automation. The hope is that robots or AI can fill the void. Sometimes that works, but it can backfire people without the right skills get left behind, and inequality grows. Out in the fields, if there aren't enough farmworkers, farmers may change the way they grow food or even plant less, which can hurt food supply.

Another major shift is who's working. Older adults and women who used to be left out in many places are joining the workforce. That helps, but it only smooths the edges of the bigger shortage. People jump from job to job and constantly retrain, chasing security that feels harder and harder to find. It makes planning for the future tougher, and job markets feel unstable.

6.3 Defining the Central Problem: Allocative Inefficiency

At the heart of all this: the system is just bad at matching people to jobs. Economists call it "allocative inefficiency" the economy isn't using its workers well. You see this in "dual disequilibrium," where unemployed people can't find jobs and businesses can't find employees, all at the same time. It's not the size of the workforce that's the problem it's how badly connected everything is.

Misinformation only makes things worse. Employers don't always know what potential hires can do, and job seekers can't see what's really available. Outdated degrees, strict licensing, and other barriers keep everything from moving. Throwing more money around doesn't fix it. The answer lies in untangling these systems and shifting ideas on how and where people work.

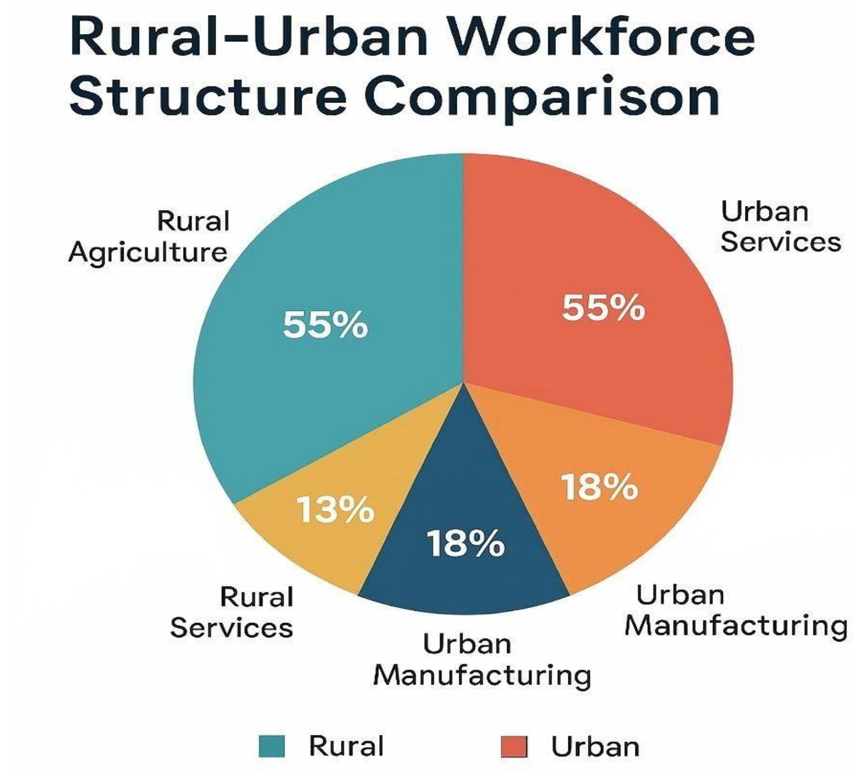

Chart 3 The charts clearly illustrate the stark contrast between rural and urban employment patterns:

1.Rural areas are dominated by Agriculture (55%), while Services and Manufacturing play smaller roles

2.Urban areas are dominated by Services (55%), with much lower agricultural employment (8%)

This comparative visualisation makes it easy to see how workforce distribution differs dramatically between rural and urban settings. You can use this in presentations or reports to highlight the structural differences in employment across these regions.

Note: Above mentioned data have been collected and presented according to rural-urban workforce structure.

6.4 Comprehensive Strategies for Long-Term Resolution

Fixing labour scarcity takes more than a quick patch or two. It needs big, coordinated changes in education, policy, and technology. The core idea is to "make skills work" connect what people learn to what employers actually need. That means education shouldn't just be about degrees, but ongoing, bite-sized skills training throughout life. Schools, companies, and governments all working together are key to making training match real jobs.

Moving people across borders and within countries matters too. Immigration has to be more flexible and precise, bringing in people where they're needed without draining talent from struggling countries. But this only works if people can also move easily within a country.

More affordable housing and better transit let workers go where there's demand.

Technology should boost what people can do, not just automate them away. Smarter hiring tools, powered by AI and data, can quickly connect the right person to the right job. That cuts delays and lowers the costs for everyone. Labour laws need to support flexibility, letting businesses and workers adapt as markets change without leaving people stranded.

7.Conclusion: Toward A Resilient Labour Market

Labour scarcity isn't just another problem to wait out. It's a fundamental shift that's here to stay. The stubborn presence of these shortages, even with plenty of people looking for work, tells us we need to revamp how the whole system runs. Efficient, fair, and adaptable markets are the only way forward.

The future depends on long-term thinking. That means investing in education that never stops, using automation thoughtfully, and seeing the job market as something dynamic and everchanging. The goal? Build an economy flexible enough for big changes in technology or demographics, but grounded in the idea that people's skills and creativity drive prosperity.

8. Suggestions

1. Make jobs more secure and comfortable: Many workers avoid jobs because of poor conditions and uncertainty. Better safety, respect, and stability can encourage more people to work.
2. Pay fair wages: When salaries don't match the effort or living costs, people lose interest. Better pay can attract and retain workers.
3. Provide flexible work options: Flexible timings or work arrangements can bring more people especially women and older workers into the workforce.
4. Focus on practical skill training: Training should match real job needs. Short-term, handson programs can help workers become job-ready faster.

5. Support worker movement: Helping workers relocate with better housing and transport can reduce shortages in areas where labour is needed.
6. Use technology to connect jobs and workers: Digital platforms can make it easier for people to find suitable jobs quickly.
7. Be more flexible in hiring: Employers should be open to training workers instead of expecting perfect skills from the start.

These steps can help reduce labour scarcity by improving both the system and the mindset of workers and employers.

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