



Impact of Employee Retention Rate to Company Performance

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Research Objectives & Key Questions

The core objective of this study explores how employee turnover, as a human capital metric, can reveal hidden strengths or risks in firm fundamentals with direct implications for investor decision-making

Does employee

turnover offer

insight into a

company's future

operational

performance

(profitability)?

Q1

Can turnover help

forecast future

stock returns?

Q2

Are there **specific** types of companies or industries where turnover is **a more** powerful investment signal?

Q3

Research Background and Trend Analysis

This study investigates the impact of employee turnover on corporate financial performance based on a globally diversified portfolio over the period 2014–2023



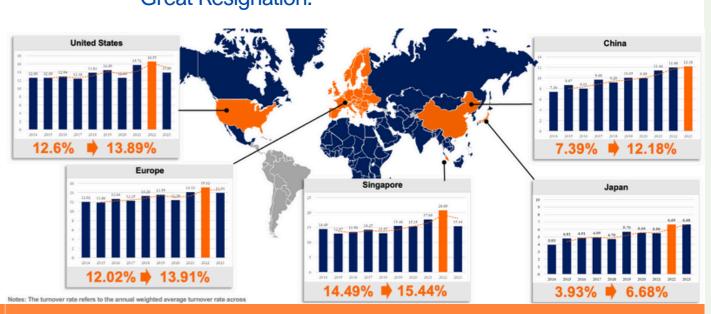
2. The Great Resignation Effect COVID-related uncertainty slowed movement, but post-pandemic recovery and remote work boosted resignations

Companies are focusing more on human capital management, with turnover reporting becomind standard practice

Cross-Region Employee Turnover Characteristic

• Turnover shows structural differences across regions due to country-specific labor dynamics.

• Most regions remained stable or declined slightly in 2020, then peaked in 2022 amid recovery, remote work, and the Great Resignation.



Key Conclusions from Literature Review

- Higher employee turnover is generally linked to weaker future financial performance, e.g. lower ROA or lower return
- Financial markets often underreact turnover signals, creating a potential alpha opportunity for investors
- Turnover effects are context-specific and non-linear, shaped by internal systems and task structure

Cross-Industry Employee Turnover Characteristic

Employee turnover is more closely linked to industry characteristic than firm size, as both high- and low-turnover sectors span a wide range of market capitalizations



Positioning Our Study: Contributions and Improvements



Most studies stop at showing correlation between turnover and performance (e.g. ROE or profitability), but few ask: → Can turnover generate alpha?



find the effects of alpha √ From correlation to

Primary Models, Empirical Evidence, and Key Takeaways

Methodology

- Full sample: Employee Turnover and Corporate Fundamentals within 2,545 firms from 2014-2023
- Fixed effects model: Control Year Effects and Firm-level Effects

Can Turnover predict future performance?

Model

 $Firm\ Performance_{it} + \beta_1 Turnover_{it} + \gamma_1 CAPEX_{it} + \gamma_2 SGATA_{it} + \gamma_3 DE_{it} + \gamma_4 SIZE_{it} + \gamma_5 NIM_{it} + \gamma_5 CAPEX_{it} +$ γ_6 Revenue Growth_{it} + γ_7 RD_{it} + Company FE + Year FE + ϵ_{it}

2. Nonlinearity of Turnover-Performance Relationship

= $\alpha + Firm Performance_{it} + \beta_1 TURNOVERHigh_{it} + \beta_2 TURNOVERLow_{it}$ $+ \gamma_1 CAPEX_{it} + \gamma_2 SGATA_{it} + \gamma_3 DE_{it} + \gamma_4 SIZE_{it} + \gamma_5 NIM_{it}$ $+ \gamma_6 Revenue Growth_{it} + \gamma_7 R \& D_{it} + Company FE + Year FE + \varepsilon_{it}$

Empirical Evidence: HIGH turnover stocks having low profitability

	Stock return results)	ults	Profitability results			Valuation results (no results)			
Variables	Stock Return (t+1)	R	OE (t+1)	EBIT Marg (t+1)	in	Tobin	's Q (t+1)	MTB (t+1)
Turnover_Lov	v -0.0143		0.536	0.674 **	Т	0	.0623	0.157	
Turnover_Hig	h 0.00378	-1	1.221 **	-0.201		0	.0233	-0.0560	

Turnover_Low: Above industry median (50th percentile) Turnover_High: Below industry median (50th percentile)

Coefficients shown; *** P<0.01, ** P<0.05, * P<0.1 Turnover_Low and Turnover_High are dummy variables indicating whether a firm's employee turnover falls in the bottom third (0-33%) or top third (66-100%) of the Tobin's Q: Calculated as market capitalization divided by total assets at the end of the year. Data source: Refinitiv MTB: Market capitalization based on total outstanding shares and latest share price, scaled by common shareholders' equity at fiscal year-end. Data source: Refinitiv. Control Variables: CAPEX, SG&A/TA, DE, SIZE, NIM, Revenue Growth, R&D

Key Message

Low employee turnover signals operational strength, whereas high turnover undermines capital efficiency

Low Turnover → Rising EBIT Margin Low turnover supports operational consistency, helping firms maintain strong

High turnover disrupts organizational continuity, leading to lower capital efficiency and poor returns on equity

High Turnover → **Declining ROE**

How should it inform investment decisions?

Low turnover may suggest disciplined workforce management and resilience in → Investors may reward firms for

capital deployment

consistent workforce stability and efficient

High turnover may indicate internal disruptions and weak retention strategies

→ Investors may view persistent turnover as a red flag for internal instability and unstable returns

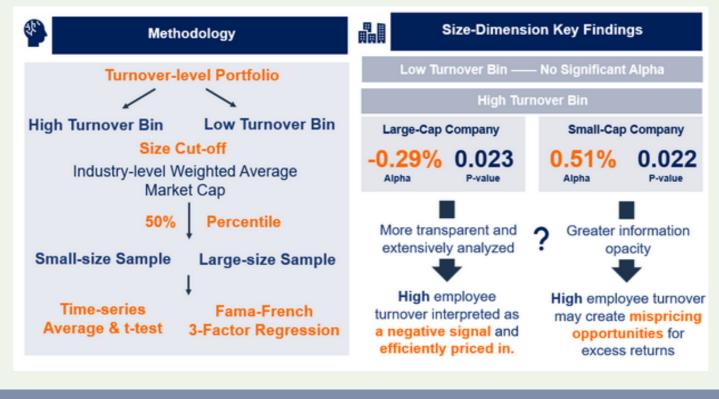
Portfolio Analysis, Empirical Evidence, and Key Takeaways

Unconditional Portfolio Analysis

$R_{P,t} - R_{f,t} = \alpha_P + \beta_P (R_{M,t} - R_{f,t}) + s_P \cdot SMB_t + h_P \cdot HML_t + \varepsilon_{P,t}$ Category (50th Percentile) Fama-French 3-Factor Regression High Turnover Portfolio Low Turnover Portfolio Test if there exists a risk-adjusted alpha beyond what is explained by the market, size, and value factors Stock Return Low Turnover Low Turnover -0.000086 0.960 No +0.51 0.200 No High Turnover High Turnover +0.66 0.127 +0.000789 0.617 No No High - Low (H-L) High – Low (H–L) ~0% 0.967 +0.000876 0.427 No significant excess return No risk-adjusted alpha

Aggregate Sample May Mask Heterogeneity

Sub-sample: Size-Dimension



Sub-sample: Industry-Dimension



Conclusions and Final Recommendations

- Use turnover as a signal of operational weakness, not a market signal
- Insight: Turnover lacks predictive power on stock returns, but reveals operational & governance red flags
- Action: Test whether high turnover predicts future volatility, earnings downgrades, or sharp drawdowns — useful for defensive portfolio design
- 2. Explore the joint role of employee inflow and outflow in workforce dynamics
- Insight: Turnover alone captures only one side of workforce changes
- Action: Encourage future analysis to combine inflow and outflow data to distinguish strategic
- hiring from talent loss

3. Interpret turnover in investment context

- Insight: Turnovers exhibit some potentially useful investment signals in certain contexts
- Action: Combine turnover with financial indicators and strategic context to develop more robust investment hypotheses