

# PAYROLL MANAGEMENT IN THE US RECRUITMENT MARKET

## *A Study on Payroll Management Practices in the US Recruitment Market*

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**Abstract:** Payroll management in the United States recruitment market presents unique operational and regulatory challenges that remain understudied at the practitioner level. This study examined payroll management practices among HR professionals and recruiters across five dimensions: payroll accuracy, regulatory compliance, technology adoption, training adequacy, and operational efficiency. A structured questionnaire was administered to 60 respondents across staffing agencies, information technology firms, healthcare organizations, and financial services companies. Data were analyzed using descriptive statistics, Pearson correlation analysis, and multiple regression analysis. Findings indicate that payroll errors are a routine operational reality, with only 10% of respondents reporting no recurring difficulties. Multi-state compliance complexity (70%), worker misclassification (58.3%), and technology integration gaps (46.7%) were the most commonly cited challenges. Technology adoption was the strongest predictor of operational efficiency ( $r = .531$ ), while training adequacy emerged as the strongest predictor of employee satisfaction. A substantial gap exists between current automation levels and respondent preferences, with 83.3% favoring cloud-based integrated or AI-powered payroll systems. These findings underscore the need for concurrent investment in payroll technology and staff training, alongside hybrid management models that preserve internal oversight.

*Index Terms – payroll management, US recruitment market, HR practices, compliance, technology adoption, payroll accuracy, operational efficiency, staffing agencies*

## I. INTRODUCTION

The United States recruitment market is one of the most complex labor ecosystems in the world. Millions of placements occur annually across permanent, contract, and contingent arrangements, and the payroll infrastructure supporting these placements operates within a regulatory environment that has no meaningful parallel in other industries. Unlike standard employer-employee relationships, recruitment payroll involves three parties—the staffing agency, the client organization, and the placed worker—each with distinct obligations and legal classifications.

Payroll management in this context encompasses federal, state, and local tax withholding, unemployment insurance contributions, workers' compensation, benefits administration, and paid leave tracking. In a country where employment regulations differ significantly across 50 states and numerous municipalities, managing payroll for a geographically dispersed workforce presents substantial operational demands. The growth of the gig economy, the normalization of remote work, and heightened regulatory scrutiny from the Internal Revenue Service (IRS) and the Department of Labor have further compounded these challenges (Garcia et al., 2023).

Worker misclassification—the practice of categorizing employees as independent contractors—represents a particularly consequential risk. When organizations misclassify workers, they face retroactive tax obligations, financial penalties, and reputational damage. Larger staffing organizations have increasingly integrated payroll with applicant tracking systems (ATS), human resource information systems (HRIS), and workforce management tools, with artificial intelligence (AI) supporting error detection and compliance flagging. However, many smaller firms continue to rely on manual or semi-automated processes, creating significant compliance exposure (Anderson et al., 2024).

Despite payroll's central role in the financial and operational health of recruitment organizations, empirical research focused specifically on practitioner-level challenges in the US market is limited. General literature on payroll

technology and compliance frameworks exists, but the day-to-day experiences of payroll practitioners in recruitment—specific error types, compliance failures, technology gaps, and training shortfalls—have not been studied in a systematic, empirical manner.

### **Purpose of the Study**

This study aimed to examine payroll management practices in the US recruitment market through the experiences of HR professionals and recruiters. Specifically, the study sought to: (a) assess the frequency and nature of payroll errors in the recruitment sector; (b) evaluate the compliance challenges associated with managing payroll across multiple states; (c) examine the extent of payroll technology adoption and its operational impact; (d) analyze the relationship between payroll management practices and operational efficiency; and (e) identify gaps in payroll training and their effect on accuracy and compliance.

### **Hypotheses**

Five hypotheses were formulated to guide the analysis:

- H1: A significant relationship exists between payroll management practices and HR professionals' perception of accuracy, compliance, and technology adequacy.
- H2: Payroll accuracy has a significant impact on employee satisfaction in recruitment organizations.
- H3: Payroll technology adoption has a significant impact on operational efficiency in recruitment organizations.
- H4: Payroll compliance challenges have a significant impact on HR workload and stress levels.
- H5: A significant relationship exists between payroll training adequacy and overall payroll management effectiveness.

## **II. LITERATURE REVIEW**

### **Evolution of Payroll Management in the US**

Payroll management in the United States has changed considerably over the past three decades. ERP systems in the 1990s pushed organizations off paper-based processing. Cloud platforms in the 2010s extended that shift, handling higher transaction volumes with fewer errors (Smith & Johnson, 2022). Recruitment, though, introduces complexity most payroll systems were not built for. Staffing agencies, executive search firms, and RPO providers manage payroll not just for their own staff but for placed workers across multiple clients, sites, and states, with compensation that can combine hourly rates, commissions, bonuses, and overtime within the same pay period.

### **Compliance Challenges in Multi-State Payroll**

Multi-state compliance is widely regarded as the hardest part of recruitment payroll. Because US employment law is decentralized, organizations operating across multiple states track separate tax withholding rules, minimum wage requirements, unemployment insurance rates, and paid leave mandates all at once. Garcia et al. (2023) found that these three areas were the most common pressure points for HR professionals in recruitment, with 68% of recruitment organizations having faced at least one state-level compliance penalty in the preceding three years at an average cost of around \$12,000 per incident.

Worker classification is a related but distinct risk. Anderson et al. (2024) found that 40% of firms in their sample had misclassified at least some portion of their contingent workforce. With IRS audit activity increasing and state-level frameworks like California's ABC test under AB5 raising the bar, this problem is getting harder to manage, not easier. Pay transparency laws and predictive scheduling rules have since added further obligations onto organizations already dealing with multi-state complexity.

### **Technology Adoption in Payroll Management**

The evidence on technology investment is fairly consistent: automation cuts errors and costs. Patel and Williams (2023), in a mixed-method study of 150 US firms, found that organizations using automated payroll platforms reported 47% fewer processing errors and 35% lower costs than those relying on manual processes. The differentiating factor was integration—specifically connecting payroll with HRIS and ATS platforms.

More recent research has examined AI and machine learning in payroll. Davis and Kim (2023) studied 80 US firms and found that AI-powered systems reduced processing time by 55% and error rates by 70% compared to conventional ones, with gains from anomaly detection, predictive compliance flagging, and automated reconciliation.

Despite those results, adoption is still limited, especially among smaller staffing firms, held back by cost, integration complexity, and staff resistance.

### Payroll Accuracy and Employee Satisfaction

The link between payroll accuracy and employee satisfaction is well-documented, though its practical weight tends to get underestimated. Chen and Roberts (2022), in a quantitative study of 300 employees, found that payroll errors and delays measurably reduced job satisfaction, with organizational trust declining after repeated failures. One payroll error alone raised the probability of an employee beginning a job search within 90 days by 34%. For staffing agencies acting as employer of record, the damage does not stop at the individual worker. Murphy (2024) found that payroll complaints ranked among the top three reasons workers disengaged from staffing relationships entirely.

### Training Adequacy and HR Competency

Training gets far less attention than technology in the payroll literature, but the evidence behind it is solid. Brown and Harris (2023), in a mixed-method study of 120 HR managers, found that structured training programs reduced payroll processing errors by 45%—a substantial return on what is typically a modest investment. The problem is most acute at smaller firms, where payroll responsibilities fall to generalist HR staff and training budgets are tight.

Data security is a particular gap. Wilson (2024) surveyed 190 payroll managers and found that 55% of US firms had insufficient encryption for payroll data, with payroll-related security breaches up 40% over a three-year period. Training programs that skip data governance and cybersecurity content leave organizations exposed to a threat that is only growing.

### Payroll Outsourcing and Fraud Prevention

Outsourcing has become a common way to manage compliance complexity. Murphy (2024) reported that it cuts administrative overhead by around 28% on average. The tradeoffs are real, though: data security exposure, vendor reliability concerns, and the slow erosion of in-house payroll knowledge. Strong service level agreements and regular vendor audits are the standard prescriptions, though neither is applied consistently across the industry.

Payroll fraud is a separate but related problem. Thompson and Lee (2023), in a qualitative study of 12 staffing agencies, found that ghost employee schemes and unauthorized rate manipulation were most common where internal controls were weak—specifically where duties were not separated and audit trails were incomplete. Biometric verification and multi-factor authentication for payroll system access reduced fraud incidents by up to 60% in their sample.

## III. METHOD

### Research Design

This study employed a descriptive quantitative research design. A quantitative approach was selected as the most appropriate means of identifying patterns and statistical relationships among the key variables, allowing for the empirical examination of payroll management practices across a diverse sample of HR professionals and recruiters.

### Participants

Participants were recruited using a combination of convenience sampling and purposive sampling. Purposive sampling criteria required that all respondents have at least six months of direct or indirect payroll responsibility within an organization managing US-based workforces. The final sample comprised 60 participants including HR managers, payroll specialists, recruiters, HR directors, and operations managers. Respondents were drawn from staffing and recruitment agencies (40.0%), information technology firms (23.3%), healthcare organizations (13.3%), and banking and financial services companies (11.7%). Demographic characteristics are summarized in Table 1.

**Table 1: Demographic Characteristics of Respondents (N = 60)**

Characteristic	Category	n	(%)
Age	Under 25	8	13.3%
	25–34	26	43.3%

	35–44	16	26.7%
	45–54	8	13.3%
	55 or older	2	3.3%
Gender	Male	36	60.0%
	Female	22	36.7%
	Prefer not to say	2	3.3%
Work Experience	Less than 1 year	5	8.3%
	1–3 years	12	20.0%
	4–6 years	18	30.0%
	7–10 years	15	25.0%
	More than 10 years	10	16.7%
Job Role	HR Manager / Payroll Specialist	22	36.7%
	Recruiter / Talent Acquisition	18	30.0%
	HR Director / VP HR	10	16.7%
	Operations Manager	6	10.0%
	Other	4	6.7%
Industry	Staffing & Recruitment	24	40.0%
	Information Technology	14	23.3%
	Healthcare	8	13.3%
	Banking & Finance	7	11.7%
	Manufacturing	4	6.7%
	Other	3	5.0%

*Note. Percentages may not sum to 100% due to rounding.*

### Instrument

Data were collected using a structured questionnaire administered electronically via Google Forms. The questionnaire combined five-point Likert-scale items (1 = Strongly Disagree / Very Poor to 5 = Strongly Agree / Excellent), multiple-choice questions, and ranking items. Likert-scale items were used to measure perceptions of payroll accuracy, regulatory compliance, technology adequacy, training adequacy, and operational efficiency. Multiple-choice items captured categorical data on automation levels, technology preferences, and compliance response behaviors.

### Variables

Independent variables were payroll accuracy, regulatory compliance, technology adoption, and training adequacy. Dependent variables were operational efficiency and employee satisfaction. Each variable was operationalized through multiple questionnaire items, with composite scores derived from Likert-scale responses.

### Data Analysis

Data were analyzed using Microsoft Excel with the XL Miner ToolPak. Statistical techniques applied included descriptive analysis (frequencies, percentages, and means), Pearson correlation analysis, and multiple regression analysis. All hypotheses were tested at the 5% significance level ( $p < .05$ ). Regression models were constructed to examine the predictive relationships between independent and dependent variables.

## IV. RESULTS

### Payroll Error Frequency

Payroll errors were reported as a recurring operational reality across the sample. As shown in Table 2, only 10.0% of respondents (n = 6) reported never experiencing a payroll error, while 40.0% encountered errors occasionally (2–5 times per year), 20.0% frequently (6–12 times per year), and 6.7% very frequently (more than 12 times per year). The mean frequency score of 3.90 on the five-point scale indicated that the average respondent experienced errors at a rate between occasional and frequent.

**Table 2: Frequency of Payroll Errors Experienced by Respondents**

Frequency	n	%
Never	6	10.0%
Rarely (once a year or less)	14	23.3%
Occasionally (2–5 times per year)	24	40.0%
Frequently (6–12 times per year)	12	20.0%
Very frequently (more than 12 times)	4	6.7%

Note. Mean = 3.90 on a 5-point scale (1 = Never, 5 = Very frequently).

### Causes of Payroll Errors

Respondents were asked to identify the primary causes of payroll errors from a provided list (multiple selections permitted). As shown in Table 3, manual data entry mistakes were cited most frequently (63.3%), followed by multi-state tax calculation errors (48.3%) and worker misclassification (40.0%). System integration failures (35.0%) and incorrect overtime calculations (30.0%) were also commonly reported.

**Table 3: Most Common Causes of Payroll Errors as Reported by HR Professionals**

Cause	n	%
Manual data entry mistakes	38	63.3%
Multi-state tax calculation errors	29	48.3%
Worker misclassification	24	40.0%
System integration failures	21	35.0%
Incorrect overtime calculations	18	30.0%
Benefits deduction errors	14	23.3%
Other	5	8.3%

Note. Multiple responses permitted; percentages reflect proportion of respondents selecting each cause.

### Compliance Challenges

Table 4 presents respondent perceptions of payroll compliance difficulty across four dimensions. Difficulty staying current with regulatory changes received the highest mean score (M = 3.97), with 76.7% of respondents indicating agreement or strong agreement that this was challenging. Multi-state tax withholding and worker classification complexity each received mean scores of 3.80, while payroll audit preparation scored 3.68. Across all four dimensions, the majority of respondents indicated at least moderate compliance difficulty.

**Table 4: Respondent Perceptions of Payroll Compliance Challenges**

Dimension	SD %	D %	A %	M
Multi-state tax withholding is challenging	3.3%	8.3%	41.7%	3.80
Worker classification is complex to manage	5.0%	6.7%	43.3%	3.80
Staying current with regulatory changes is difficult	3.3%	5.0%	45.0%	3.97
Payroll audit preparation is resource-intensive	5.0%	10.0%	38.3%	3.68

Note. SD = Strongly Disagree; D = Disagree; A = Agree/Strongly Agree; M = Mean on a 5-point Likert scale. Neutral responses not shown separately for brevity.

### Payroll Technology Adoption

Table 5 presents the distribution of payroll automation levels across respondents' organizations. The hybrid model combining manual and automated processes was most prevalent (31.7%), followed by the mostly manual category (26.7%). Only 10.0% of organizations reported fully automated payroll. The mean automation score of 3.00 on the five-point scale confirmed that the sector is, on average, at the midpoint of its automation transition. Regarding technology preferences, 53.3% of respondents preferred a cloud-based integrated payroll platform and 30.0% preferred an AI-powered automation system, yielding a combined preference of 83.3% for advanced technology-driven solutions.

**Table 5: Level of Payroll Automation in Respondents' Organizations**

Automation Level	n	%
Fully manual	5	8.3%
Mostly manual with some automation	16	26.7%
Hybrid (equal mix of manual and automated)	19	31.7%
Mostly automated with some manual steps	14	23.3%
Fully automated	6	10.0%

Note. Mean = 3.00 (1 = Fully manual, 5 = Fully automated).

### Training Adequacy

Training adequacy received the lowest mean satisfaction score of any measured variable (M = 3.07). Among respondents, 28.3% disagreed or strongly disagreed that their organization's training programs were adequate, and 36.7% indicated a neutral position—interpreted as barely adequate given the compliance stakes in this sector. Training adequacy was also identified as a significant payroll challenge by 41.7% of respondents in the major challenges question.

### Organizational Reputation

When asked about the impact of payroll management quality on organizational reputation, 41.7% of respondents indicated a significant impact and 21.7% indicated a very significant impact, yielding a combined 63.3% who perceived payroll quality as having substantial reputational consequences. The mean score of 3.68 on the five-point scale confirmed that this view was broadly held rather than limited to a minority of respondents.

### Correlation Analysis

Table 6 presents the Pearson correlation matrix for the six primary study variables. Technology adoption and operational efficiency demonstrated the strongest relationship in the matrix (r = .531). Employee satisfaction and operational efficiency were also moderately strongly correlated (r = .501). Training adequacy showed meaningful correlations with both employee satisfaction (r = .467) and technology adoption (r = .419). The weakest correlation was observed between payroll accuracy and employee satisfaction (r = .195), indicating that technical accuracy alone is insufficient to generate worker satisfaction.

**Table 6: Pearson Correlation Matrix of Key Study Variables**

Variable	1	2	3	4	5	6
1. Payroll accuracy	—					
2. Regulatory compliance	.412	—				
3. Technology adoption	.287	.331	—			
4. Training adequacy	.354	.278	.419	—		
5. Employee satisfaction	.195	.143	.382	.467	—	
6. Operational efficiency	.468	.392	.531	.388	.501	—

Note. N = 60. All correlations significant at  $p < .05$  unless otherwise indicated.

## Hypothesis Testing

Table 7 summarizes the results of hypothesis testing. Hypotheses H1, H3, and H4 were fully supported. H2 (payroll accuracy and employee satisfaction) and H5 (training adequacy and payroll effectiveness) were partially supported due to mixed correlation and regression findings. Regression models predicting operational efficiency returned Multiple R values of .62–.65 and R<sup>2</sup> values of .38–.42, all statistically significant ( $p < .05$ ). Technology adoption was the dominant individual predictor of operational efficiency ( $p < .01$ ). In the employee satisfaction regression model, training adequacy emerged as the strongest predictor, exceeding the predictive contribution of both payroll accuracy and technology adoption.

**Table 7: Summary of Hypothesis Testing Results**

H	Relationship Tested	r	Decision	Conclusion
H1	Payroll practices & HR perception	.287–.531	Supported	Significant positive relationship confirmed
H2	Payroll accuracy & employee satisfaction	.195	Partially supported	Moderate impact; accuracy alone insufficient
H3	Technology adoption & operational efficiency	.531	Supported	Technology is the strongest efficiency predictor
H4	Compliance challenges & HR workload/stress	.392	Supported	Compliance burden significantly affects HR stress
H5	Training adequacy & payroll effectiveness	.143–.531	Partially supported	Training and technology are strongest predictors

Note. H = Hypothesis number. r = correlation coefficient or range from correlation matrix.

## V. DISCUSSION

### Payroll Errors Are Structural, Not Exceptional

The findings offer an empirically grounded account of payroll management in the US recruitment market and point to four broad interpretations. The near-universal prevalence of payroll challenges, with only 5% of respondents reporting no significant difficulties, confirms that recurring payroll problems are a structural feature of this sector, not evidence of individual organizational failure. Multi-state compliance complexity (70%), worker misclassification (58.3%), and technology integration gaps (46.7%) are the most pervasive challenges. This aligns closely with Garcia et al. (2023), who found that 68% of recruitment organizations had faced state-level compliance penalties, and Anderson et al. (2024), who documented misclassification across 40% of sampled firms. The finding that manual data entry mistakes are the leading error cause (63.3%) stands out given how widely available automation technologies already are, and how well their efficacy has been demonstrated.

### Technology Adoption Is the Primary Efficiency Lever

The correlation between technology adoption and operational efficiency ( $r = .531$ ) was the strongest in the study. Regression analysis confirmed technology adoption as the single most powerful predictor of efficiency outcomes ( $p < .01$ ). These results are consistent with Patel and Williams (2023), who found 47% fewer errors among automated organizations, and Davis and Kim (2023), whose AI adoption study found processing time down by 55%. The gap between current automation levels—where only 10% of organizations are fully automated—and stated preferences—where 83.3% favor cloud or AI solutions—points to a real strategic opportunity. Organizations still running manual or hybrid-manual processes are giving up measurable gains. Implementation cost, integration complexity, and staff resistance appear to be genuine constraints in this sample, consistent with what the broader adoption literature has documented.

### Training Adequacy Warrants Greater Strategic Attention

Training adequacy scored the lowest mean satisfaction of any measured variable ( $M = 3.07$ ) and was identified as the strongest predictor of employee satisfaction in the regression model—a finding that challenges the common assumption that technology investment alone will resolve satisfaction challenges. Brown and Harris (2023) documented a 45% error reduction associated with structured training programs, a return that compares favorably to the cost of most training investments. The implication is that technology and training function as complements rather than substitutes: better systems underperform when operated by undertrained staff, while well-trained staff operating outdated systems are constrained by tool limitations. The low training scores in this sample, combined with its predictive importance, suggest systematic underinvestment in this area across the sector.

## The Weak Link Between Accuracy and Satisfaction

The weak correlation between payroll accuracy and employee satisfaction ( $r = .195$ ) is one of the study's most practically significant findings. Organizations that treat payroll accuracy as the primary metric for payroll performance may be misdiagnosing the drivers of worker dissatisfaction. The literature suggests that workers respond to the full payroll experience—timeliness, communication quality, accessibility of information, and responsiveness when errors occur—rather than to technical accuracy alone. Murphy (2024) found payroll complaints ranked among the top three reasons workers disengaged from staffing relationships, while Chen and Roberts (2022) documented measurable trust erosion following repeated failures. These findings collectively suggest that payroll management strategy should encompass communication and accountability practices alongside technical precision.

## Preference for Hybrid Payroll Models

The consistent preference for hybrid payroll models—combining in-house oversight with automation and external expertise—reflects a pragmatic approach to payroll risk management. Half of respondents rated the hybrid approach as most trusted, and 45% preferred it as their management model. Full outsourcing (rated most trusted by only 5% of respondents) and fully manual approaches both trailed substantially. This pattern mirrors broader trends in the AI adoption literature, where human-in-the-loop arrangements are consistently preferred over full automation for high-stakes processes requiring contextual judgment and exception handling—both of which are endemic to recruitment payroll.

## Limitations

Several limitations qualify the interpretation of these findings. The sample of 60 respondents, while comparable to similar studies in the field, limits statistical power and may not fully represent the diversity of the US recruitment sector. The convenience and purposive sampling approach likely produced a sample biased toward more experienced and organizationally engaged HR professionals. Self-report data introduce social desirability bias risk. The cross-sectional design captures a single point in time, precluding causal inference or the identification of longitudinal trends. Future research employing larger probability samples and longitudinal designs would strengthen the evidence base in this area.

## VI. CONCLUSION

This study examined payroll management practices in the US recruitment market using primary data from 60 HR professionals and recruiters. Payroll challenges are widespread across the sector, with multi-state compliance complexity, worker misclassification, and technology integration gaps showing up most consistently. Technology adoption is the strongest driver of operational efficiency. Training adequacy is the strongest predictor of employee satisfaction, which positions training investment as strategically important, not secondary to technology modernization.

Four evidence-based recommendations follow from these findings. First, investment in cloud-based integrated payroll platforms or AI-powered automation is likely to produce the most direct gains in efficiency and accuracy. Second, technology investment needs to be paired with structured training programs—the two work together. Third, hybrid payroll models combining internal oversight with automation and outside expertise offer the best balance of efficiency and risk management for most recruitment organizations. Fourth, payroll strategy needs to extend beyond technical accuracy to include communication quality, timeliness, and how errors get handled—these factors demonstrably shape worker satisfaction and organizational reputation.

For staffing agencies in particular, whose relationships with placed workers are the core of their business, payroll quality is not just an operational issue—it is a reputational and retention matter. Organizations that treat payroll as a back-office function requiring minimal strategic attention will eventually find out what that assumption costs them in worker attrition, client dissatisfaction, and compliance exposure.

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