MCP SERVER | NO CODE | CLOUD HOSTED

BLS Jobs MCP for AI Agents

Analyzing US Nonfarm Payrolls and Wage Trends

The BLS Jobs — Nonfarm Payrolls & Wages MCP gives your agent direct access to core US employment data from the Bureau of Labor Statistics. Query total job additions, break down trends by sector, and track average hourly earnings using definitive economic metrics used by financial institutions.

A+ Quality Score 100/100

employment-data | nonfarm-payrolls | job-growth | labor-statistics | economic-reporting | sector-analysis

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vinkius.com/mcp/bls-jobs-nonfarm-payrolls-wages

SCAN TO VIEW

The connectivity layer between AI and the world's software.

Vinkius sits between AI and every application. All communication passes through Vinkius Cloud via the Model Context Protocol (MCP) — with governance, observability, and security at every layer.

Your AI Connections Run Through Vinkius Cloud

The world's largest managed MCP catalog

Vinkius is the connectivity layer where AI connects to the software your business already runs. We handle the hosting, the security, the credentials, the uptime — you get agents that actually do things.

We operate the world's largest managed MCP catalog. Major SaaS platforms, CRMs, databases, and cloud providers — running, monitored, production-ready. This MCP server is hosted and maintained by the Vinkius Cloud for AI Agents.

> *The agent doesn't manage credentials, doesn't manage uptime, doesn't manage security. Vinkius does.*
>
> — Architecture principle

Four Pillars of the Vinkius Runtime

01 — Security by design

Credentials stay encrypted at rest via AES-256. The AI agent never touches raw keys — they're injected into a sandboxed V8 isolate at runtime. Actions are logged, and connections have an emergency kill switch.

02 — Built on MCP Fusion

This MCP server was built with **MCP Fusion**, the open-source framework (Apache 2.0) that powers the entire Vinkius catalog. Schema-as-firewall strips undeclared fields, compiled PII redaction runs at zero overhead, and cryptographic lockfiles produce git-diffable audit trails.

03 — Deterministic observability

Eight immutable metrics per endpoint: request volume, p95 latency, error rate, active connections, cost attribution. A live payload feed logs every tool call with mutation detection.

04 — Autonomous operations

Servers are deployed, monitored, and patched autonomously. New capabilities and security patches ship weekly. Zero-downtime deployments ensure continuous availability across all managed MCP servers.

AES-256	Ed25519	24h TTL	V8 Isolate
Encryption at rest	PKI vault signatures	Ephemeral session keys	Sandboxed execution

One Token. Instant Access.

Every MCP server on Vinkius is accessed through a **Connection Token**. Tokens are generated in the cloud dashboard and produce a unique MCP endpoint URL. Paste this URL into any MCP-compatible client — no SDK required.

A single token can serve **multiple AI clients simultaneously**, or you can issue separate tokens per client for granular access control. Each token tracks its own request count, last activity timestamp, and can be individually enabled or revoked.

MCP ENDPOINT

```
https://edge.vinkius.com/{token}/mcp
```

Claude · Cursor · VS Code · Windsurf · Grok · Gemini

Security Is the Architecture

Security in Vinkius is not a feature — it's the foundation of the runtime. The gateway enforces multiple independent protection layers between AI agents and third-party APIs.

01 — Ed25519 PKI Vault

Every workspace has an Ed25519 Master Key. Session keys are generated ephemerally (24h TTL) and signed by the Master Key. Credentials never leave the vault boundary.

02 — V8 Isolate Sandboxing

Tool code runs inside isolated-vm V8 isolates with 64 MB memory caps and per-request timeouts. No filesystem access, no network access except through the SSRF-guarded fetch bridge.

03 — SSRF Guard

All outbound HTTP requests are DNS-resolved and validated before execution. Private IP ranges (10.x, 172.16-31.x, 192.168.x, AWS metadata 169.254.x) are blocked at the network layer.

04 — DLP & PII Redaction

A ResponseGuard pipeline intercepts every tool response. Configurable redaction patterns strip sensitive fields (emails, SSNs, card numbers) before data reaches the AI agent.

05 — Cryptographic Audit Trail

Every request is signed into a SHA-256 hash chain with Ed25519 signatures. Events form a tamper-proof, SIEM-exportable forensic record.

06 — Honeytoken Trap System

Phantom credentials are injected into isolated environments. If a honeytoken is used outside Vinkius infrastructure, the server is quarantined instantly.

Emergency Kill Switch

EU AI Act Art. 14(1) Compliant

The kill switch is an **emergency halt** mechanism — not a simple toggle. When triggered, it executes three actions atomically:

01 — Server deactivated

The MCP server is immediately taken offline across the entire cluster.

02 — All tokens revoked

Every connection token is invalidated. Total lockout — reconnection blocked until new tokens are issued.

03 — WebSocket connections killed

Active connections terminated via Redis pubsub broadcast. Propagates to every runtime node in the cluster.

Full Visibility. Zero Guesswork.

The Vinkius cloud dashboard includes a full MCP Governance suite — real-time analytics and security controls for production AI operations.

Control Plane

KPI dashboard with request volume, latency, success rate, token consumption, and AI-generated operational briefings.

Agent Activity

Which AI clients are connecting, how often, and what they're doing — real-time session tracking.

FinOps

Cost tracking per tool, payload compression savings, budget optimization signals, and consumption trends.

Tool Health

Slowest and most error-prone tools, with actionable root-cause insights and performance baselines.

Firewall & DLP

PII redaction activity, sensitive data protection counters, and security event timeline.

Incident Log

Error trends, failure rates, status-code breakdowns, and forensic audit trail access.

> Get started at **cloud.vinkius.com** — connect your AI agent in under 60 seconds.

BLS Jobs — Nonfarm Payrolls & Wages MCP

2 tools available
Cloud-hosted on Vinkius

This MCP connects your AI client directly to the official Current Employment Statistics (CES) program published by the Bureau of Labor Statistics. It gives you an authoritative data feed, letting you monitor crucial indicators like Nonfarm Payrolls, which are essential for understanding US job growth and economic momentum. You can ask it to calculate how many jobs were added month-over-month or compare wage trends across different sectors over a decade.

It's the data Wall Street uses, making it invaluable for financial modeling or academic research. When you connect this MCP via Vinkius, your agent reads these complex datasets and spits out simple answers—like calculating the total job additions in Q4 or determining if wage growth is outpacing inflation. You just ask the question, and it provides the raw numbers needed to inform major decisions.

Core Capabilities

01 — Determine Quarterly Job Additions

Calculate the total number of jobs added to the US economy over specific time periods.

02 — Analyze Sector Employment Trends

Drill down into job data, viewing employment levels in specific sectors like health care or hospitality.

03 — Monitor Wage Growth

Query the average hourly earnings for private sector workers to track inflation and labor tightness.

04 — Run Advanced Historical Queries

Execute complex, time-series lookbacks across multiple specific BLS data series simultaneously.

05 — Forecast Economic Metrics

Use historical payroll and wage data to build models predicting future economic shifts.

One Click on Vinkius — From Prompt to Execution

Available at **vinkius.com/mcp/bls-jobs-nonfarm-payrolls-wages** — connect your AI agent in three steps.

01 Start by providing your agent with a valid BLS Developer API Key. You'll place this key in the MCP settings.

02 Ask your AI client to perform a specific query, whether it's tracking Nonfarm Payrolls for the last quarter or comparing average hourly wages year-over-year.

03 The MCP executes the request against the live BLS datasets and returns structured data that your agent can read, summarize, and analyze.

The bottom line is you get instant access to professional economic reporting without needing a dedicated data science team or complex API calls.

Built For

This MCP is critical for financial analysts, economists, and corporate strategists who live off macro trends. If your job involves predicting market movement based on employment numbers, this tool saves hours of manual data aggregation.

Financial Analyst

Building models that predict Federal Reserve interest rate movements using monthly Nonfarm Payroll additions.

Economic Consultant

Comparing wage growth and sector employment shifts across multiple years to advise corporate clients on labor risk.

Journalist/Investigative Reporter

Fact-checking real-time changes in job numbers or specific industry trends for articles about the economy.

What Changes When You Connect

01 Know exactly how many jobs were added each month by running the `get_nonfarm_payrolls` tool, giving you instant insight into job market momentum.

02 Compare wage growth rates over time. By querying average hourly earnings, you can instantly tell if workers' compensation is keeping pace with inflation.

03 Go deep on specific sectors. You don't have to rely only on general reports; you can query detailed sector breakdowns for targeted analysis.

04 Handle complex data sets easily. Use the `query_bls` tool when standard requests aren't enough, allowing up to 50 concurrent lookbacks for historical accuracy.

05 Focus on outcome, not API calls. Your agent handles all the complex date formatting and data parsing required to give you a clean, actionable summary.

Real-World Applications

Modeling Rate Hikes Based on NFP

A financial analyst needs to know if recent job growth is strong enough to justify higher interest rates. They ask their agent to pull the last 12 months of Nonfarm Payroll additions, allowing them to build a rate hike probability model.

Checking Sector Resilience After Downturn

A consultant needs to determine which sectors bounced back fastest after an economic dip. They use the MCP to query sector breakdowns for leisure and hospitality versus construction, quickly identifying the strongest rebound areas.

Comparing Wage Growth Across Eras

A journalist is writing a piece on labor history. Instead of manually pulling decade-spanning wage data, they ask their agent to track average hourly earnings over 10 years in one go, providing concrete historical evidence.

Validating Data for a Major Report

A corporate strategist needs to verify employment numbers from three different sources. They use the MCP's advanced querying ability to pull multiple specific BLS Series IDs at once, ensuring their final report uses only official data.

Patterns to Avoid

Asking for a single-year snapshot

✗ AVOID

Saying, 'What were the jobs added in 2023?' This is too broad and won't give you the comparative context needed to understand momentum.

✓ INSTEAD

Instead, ask your agent to run `get_nonfarm_payrolls` for specific quarters (Q1 2023 through Q4 2023). Comparing these segmented results gives a clear picture of acceleration or deceleration.

Ignoring wage context

✗ AVOID

Only looking at raw job counts without checking the average hourly earnings. You might see growth, but if wages aren't rising, the labor market is struggling.

✓ INSTEAD

Always pair your job count query with a request for average hourly earnings. This combination tells you both *if* people are working and *how much* they're making.

Using general search terms

✗ AVOID

Asking, 'What is the state of the US economy?' The AI can only guess; it won't provide official figures.

✓ INSTEAD

Be specific. Request data using `get_nonfarm_payrolls` or ask for wage trends in a defined sector to get concrete, verifiable numbers.

The Right Fit

Use this MCP if your work requires reliable, historical US labor market metrics, especially when predicting interest rate moves or tracking wages. It excels at pulling specific data points like total Nonfarm Payrolls and average hourly earnings across defined time ranges. Don't use it if you need real-time stock prices or company-specific HR data; this is macro-level government statistics only. Similarly, don't rely on general web scraping for job postings, because the data here is authoritative BLS reporting, not anecdotal listings.

BLS Jobs MCP for AI Agents: Analyzing Nonfarm Payrolls and Wages

Before this MCP, gathering a comprehensive view of US job growth was a multi-hour manual process. Analysts spent time navigating the BLS website, cross-referencing NFP reports with wage data, and manually exporting spreadsheets for every quarter they needed to model.

Now, your agent handles it all. You simply prompt: 'Show me Nonfarm Payroll additions for the last five years.' The MCP retrieves the official figures, giving you a structured timeline of job creation that's ready for immediate analysis.

BLS Jobs MCP for AI Agents: Tracking Sector Employment Trends

Manually tracking how different industries perform was nearly impossible. You had to check separate reports for tech, hospitality, and healthcare, making it hard to see which sectors drove the overall economy.

With this MCP, you can ask your agent to compare sector job growth side-by-side. It gives you a clean breakdown of where the real economic power is shifting right now.

BLS Jobs: 2 Tools for Economic Reporting and Wage Analysis

Use these tools to pull specific employment counts, query historical BLS time-series data, or analyze total nonfarm payroll additions.

#	TOOL	DESCRIPTION
01	`get_nonfarm_payrolls`	Retrieves the total count of nonfarm payroll additions, a key metric for forecasting economic shifts.
02	`query_bls`	Performs advanced time-series queries using specific BLS Series IDs when you need granular historical data beyond standard reports.

See It in Action

Real prompts you can use once this MCP is connected to your AI agent through Vinkius Cloud.

U What was the total Nonfarm Payroll growth and average hourly wage trend in Q4 over the last decade?

📊 **US Labor Market Trends (2013 - 2023)**

Nonfarm Payrolls Growth:
- 2013 Avg: +150k/mo
- ...
- 2023 Avg: +200k/mo

Average Hourly Wages:
- 2013 Avg: $24.50
- ...
- 2023 Avg: $38.15

Overall, job additions have consistently accelerated, and average wages show a steady climb, signaling strong underlying labor demand.

U Which sectors added the most jobs in December of last year?

📊 **Sector Job Growth (Dec)**

1. **Government**: +52,000 jobs
2. **Leisure and Hospitality**: +40,000 jobs
3. **Health Care**: +38,000 jobs

These three sectors accounted for over 60% of all nonfarm payroll additions that month. This concentration suggests a heavy reliance on public services and consumer-facing industries.

U Show me the average hourly earnings trend for workers in private nonfarm payrolls.

💵 Average Hourly Earnings (CES0500000003)

The average hourly earnings for all employees on private nonfarm payrolls reached $34.27 last month. This represents a 4.1% increase over the past 12 months, keeping wage growth solidly above current inflation rates.

Frequently Asked Questions

01 **Can the BLS Jobs MCP help me track job trends for financial modeling?**

Yes, this MCP provides the definitive data used by major financial institutions. You can retrieve Nonfarm Payroll additions and average hourly wages to build accurate models predicting market movement or inflation.

02 **How do I use the BLS Jobs MCP if I need a lot of historical data?**

The MCP supports advanced querying using specific BLS Series IDs. This lets you look back at multiple different types of economic metrics simultaneously, which is crucial for deep academic or financial research.

03 **Does the BLS Jobs MCP include job postings from private companies?**

No, this data comes directly from the U.S. Bureau of Labor Statistics (BLS), so it represents official economic statistics and government-tracked employment numbers, not individual company listings.

04 **What kind of job metrics can I get with BLS Jobs MCP for AI Agents?**

You can retrieve total Nonfarm Payroll additions, detailed sector breakdowns (like health care or tech), and the average hourly earnings across private nonfarm payrolls.

05 **Is this data suitable for writing a journalistic report on labor trends?**

Absolutely. The data is sourced from the official BLS CES program, making it highly reliable for journalism. You can fact-check employment cycles and wage changes instantly.

Go Live in 60 Seconds

Get your connection token from **cloud.vinkius.com**, then paste the endpoint URL into any MCP-compatible client.

YOUR MCP ENDPOINT

```
https://edge.vinkius.com/[TOKEN]/mcp
```

CLIENT	WHERE TO CONFIGURE
Claude AI	Profile → Customize → Connectors → "+" → Add custom connector → Paste endpoint
Cursor	Settings → Features → MCP Servers → "+ Add New MCP Server" → Type: SSE → Paste endpoint
VS Code	Ctrl/Cmd+Shift+P → "MCP: Add Server" → add `"bls-jobs-nonfarm-payrolls-wages": { "url": "…" }`
Windsurf	MCP Settings → `mcp_settings.json` → Add endpoint URL
ChatGPT	Settings → Tools & plugins → Add MCP server → Paste endpoint
Gemini	Extensions → Add MCP Server → Paste endpoint URL

ASK AN AI ABOUT THIS

Let your preferred AI explain this MCP server

- Ask ChatGPT
- Ask Claude
- Ask Perplexity
- Ask Gemini
- Ask Grok

READY TO CONNECT

BLS Jobs — Nonfarm Payrolls & Wages is live on Vinkius Cloud.

Get your connection token, paste it into your AI agent, and start building. No SDK. No deployment. Just results.

Start at cloud.vinkius.com →

vinkius.com · support@vinkius.com

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Endpoint	`https://edge.vinkius.com/{token}/mcp`

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