MCP SERVER | NO CODE | CLOUD HOSTED

BLS JOLTS MCP for AI Agents

Analyze US Job Openings, Quits, and Turnover Rates

The BLS JOLTS MCP gives you access to the official US Job Openings and Labor Turnover Survey (JOLTS) data. You can track key labor market indicators like job openings, hiring levels, layoffs, and voluntary quits. It lets your AI agents monitor changes in labor supply and demand for macro-trading or economic forecasting.

A+ Quality Score 100/100

labor-market | economic-indicators | job-openings | turnover-rates | macro-economics | public-api

MAINTAINED BY VINKIUS CLOUD FOR AI AGENTS · JUNE 2026
vinkius.com/mcp/bls-jolts-job-openings-quits-turnover

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 JOLTS — Job Openings, Quits & Turnover MCP

2 tools available
Cloud-hosted on Vinkius

Understanding labor tightness is critical, whether you're predicting next quarter's wage inflation or running a high-stakes trade. This MCP connects directly to the Bureau of Labor Statistics (BLS) JOLTS data stream. It pulls four core metrics: job openings, total hires, layoffs/discharges, and voluntary quits. Your AI client can analyze these time series metrics instantly, building reports that track the 'Great Resignation' index or measure overall labor force health without you ever touching a raw government dashboard. Instead of manually pulling data into a spreadsheet to compare quits rates against layoff trends, your agent handles it all. You simply tell your agent what comparison you need, and it pulls the correct historical context directly from the BLS records. Accessing this deep-dive economic intelligence through Vinkius's catalog means your AI client can process complex labor market data streams in one place.

Core Capabilities

01 — Track Job Openings and Labor Metrics

Get the national metrics for job openings, allowing you to gauge overall supply of available work.

02 — Query Historical BLS Data Time Series

Run flexible queries across various historical Bureau of Labor Statistics data points using explicit series IDs.

03 — Measure Worker Turnover Rates

Compare voluntary quits against total layoffs to determine the underlying strength or weakness of the labor market.

One Click on Vinkius — From Prompt to Execution

Available at **vinkius.com/mcp/bls-jolts-job-openings-quits-turnover** — connect your AI agent in three steps.

01 Tell your AI agent exactly what data you need, for example, 'Show me job openings trends over the last six months.'

02 The MCP calls the necessary BLS tools to pull specific metrics—whether it's current national figures or a historical time series.

03 Your agent receives clean, structured data and presents the full picture of labor supply and demand.

The bottom line is you get immediate, comprehensive access to official US job market statistics without writing any complex API calls yourself.

Built For

This MCP serves financial analysts and macro-economists who need real-time insight into labor supply. It's for anyone whose decisions depend on knowing if the labor market is cooling down or heating up rapidly.

Macro Economist

Uses job openings metrics and quits rates to forecast wage inflation, write policy papers, and model economic recession risks.

Financial Analyst

Monitors hiring levels and layoff data for specific sectors to adjust investment theses before the market opens.

Consulting Strategist

Analyzes turnover rates across industries to advise corporate clients on workforce retention strategies and labor cost forecasting.

What Changes When You Connect

01 Measure the 'Great Resignation' index by easily comparing quits levels against historical averages using `get_jolts_data`.

02 Track job openings across different time periods. You can get current national metrics quickly with `get_jolts_data`, saving hours of manual data collection.

03 Compare multiple economic variables in one go, such as running a generalized timeseries query with `query_bls` for deep historical context.

04 Forecast wage pressure by analyzing the relationship between hiring levels and quit rates. This helps you predict corporate cost changes.

05 Reduce reporting time from days to minutes. Instead of compiling reports on hires and layoffs manually, let your agent handle the entire data aggregation process.

Real-World Applications

Modeling recession risks using JOLTS

A macro-trader needs to know if labor market cracks are forming. They prompt their agent: 'What's the latest reading on total job openings?' The agent uses `get_jolts_data` and reports a trend, allowing the trader to adjust risk models instantly.

Comparing voluntary exits versus corporate cuts

An economist needs to measure worker conviction. They ask their agent to compare quits vs layoffs over the last quarter. The agent runs the necessary data comparison, highlighting that high quit rates signal strong employee negotiating power.

Deep historical labor trend analysis

A consultant wants to see how job openings behaved during the 2008 crisis versus today. They use `query_bls` with specific BLS Series IDs, pulling years of data into a single comparison view.

Sector-specific turnover summaries

A strategist needs to summarize labor movement for the Tech sector. The agent pulls and summarizes layoff trends combined with hiring slowdowns from multiple BLS sources in one report.

Patterns to Avoid

Ignoring time series data

✗ AVOID

Just looking at last month's job openings number without checking the 5-year trend. You might think the market is stable when it's actually in a deep decline.

✓ INSTEAD

Use `query_bls` to pull historical data across multiple years and visualize the full cycle, giving you true context instead of a snapshot.

Mixing job metrics with salary data

✗ AVOID

Trying to correlate raw jolt openings numbers directly with proprietary salary surveys without accounting for labor supply shifts.

✓ INSTEAD

Stick to the core BLS metrics. Use `get_jolts_data` first to establish baseline market conditions, then overlay your internal data.

Treating quits as a single metric

✗ AVOID

Focusing only on the 'Quits Level' without checking how many jobs are actually available. A high quit rate is meaningless if job openings are also falling fast.

✓ INSTEAD

Always look at three variables together: Openings, Hires, and Quits. Use `get_jolts_data` to get all three in one view.

The Right Fit

Use this MCP if your workflow requires official, granular US labor market data—specifically job openings, quits, hires, or layoffs—for macro-economic modeling or financial risk assessment. You need the depth of the BLS JOLTS records and its historical time series capability (`query_bls`). Don't use it if you are only tracking internal company HR metrics; for that, a dedicated CRM or payroll tool is better. Also, don't rely on this MCP for real-time intraday market data; it provides official monthly statistics. If your goal is simply to read an article about labor, skip the complexity and just use a web search instead of connecting an agent.

Analyzing BLS JOLTS Job Openings with the BLS JOLTS MCP

Manually tracking labor market shifts means constantly jumping between multiple government websites, downloading CSVs for job openings, and then wrestling those files into a comparison chart. You spend hours just aggregating data to answer one question about industry health.

With this MCP, you ask your agent for the latest national job opening count. It pulls the precise figure instantly. The punchline? Your AI client delivers structured, actionable metrics right when you need them.

Using BLS JOLTS for Turnover Rates with the BLS JOLTS MCP

Before this MCP, comparing quits rates to layoff totals was a tedious process of cross-referencing different quarterly reports. You'd have to ensure every date and metric matched up perfectly across multiple sheets.

Now, your agent handles the comparison automatically. It pulls the relevant metrics—from hires through voluntary quits—and spits out the clean ratio you need for your report.

2 Tools in BLS JOLTS for Job Openings & Turnover Rates

Use these tools to retrieve specific national metrics or run deep historical queries on the Bureau of Labor Statistics' job market data.

#	TOOL	DESCRIPTION
01	`get_jolts_data`	Retrieves the latest national job openings metrics from JOLTS, which is critical for assessing worker resignation trends.
02	`query_bls`	Allows for generalized time series lookbacks across any specific BLS metric using known numerical codes. Up to 50 simultaneous queries are allowed.

See It in Action

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

U What's the trend on job openings vs quit rates over the last year?

JOLTS Market Overview (Last 12 Months)

METRIC	START QTR	PEAK VALUE	CURRENT TREND
Job Openings	9.5M	12.1M	$downarrow$ Declining
Voluntary Quits	1.8%	3.0%	

$ ightarrow$ Stable |

Observation: The current job openings count remains significantly above historical averages, suggesting persistent labor tightness despite a slowdown in quits.

U Compare hires and layoffs for the Information sector.

Sector Turnover Analysis (Information Tech)

- **Hires:** Increased by 4% quarter over quarter.
- **Layoffs/Discharges:** Held steady at a low rate of 0.9%.

This indicates that while layoffs are minimal, the sector is seeing consistent growth in hiring activity, suggesting strong investment confidence.

U Show me job openings for Q1 and Q2 of last year.

Job Openings (JOLTS) Comparison

Q1 Last Year: 9.8 million open jobs.
Q2 Last Year: 10.5 million open jobs.

This shows a clear upward movement in job supply during the middle of last year, indicating increased hiring pressure across the national economy.

Frequently Asked Questions

01 **How can I use the BLS JOLTS MCP to forecast wage changes?**

The BLS JOLTS MCP helps by providing raw labor supply and demand data. By tracking quits rates relative to job openings, your agent lets you model potential wage inflation or deflation pressures before they happen.

02 **Is the BLS JOLTS MCP better than just using a web search for jobs?**

Yes. A web search gives current headlines; this MCP provides structured, historical time series data from the official source. You get clean numbers and multiple metrics like hires and layoffs in one place.

03 **What if I need job openings for a specific industry? Does BLS JOLTS support that?**

The MCP allows you to query data by sector or use the general `query_bls` tool with explicit series IDs. This lets your agent focus on the exact labor market segment you care about.

04 **Can I compare job openings across different years using this MCP?**

Absolutely. The underlying tools allow for generalized time series queries, letting you pull and align data from multiple quarters or even years to spot long-term trends.

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-jolts-job-openings-quits-turnover": { "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 JOLTS — Job Openings, Quits & Turnover 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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DOCUMENT INFORMATION

Generated	June 2026
MCP Server	BLS JOLTS — Job Openings, Quits & Turnover MCP
Server ID	`019d755f-5477-7077-a225-68fdd6215df9`
Platform	Vinkius Cloud for AI Agents
Endpoint	`https://edge.vinkius.com/{token}/mcp`

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