MCP SERVER | NO CODE | CLOUD HOSTED

Bureau of Labor Statistics Full — The Mega MCP for AI Agents

Analyzing US Inflation and Local Labor Market Trends by State

The Bureau of Labor Statistics Full — The Mega Server provides deep, comprehensive access to all major American economic datasets. It lets your AI agents track national inflation (CPI), job creation rates (Nonfarm Payrolls), unemployment figures, and local labor market shifts across state lines. You get a single source for the core metrics that drive finance, research, and corporate strategy.

A+ Quality Score 100/100

economic-indicators | inflation-data | labor-market | cpi | unemployment-rates | wage-statistics

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vinkius.com/mcp/bureau-of-labor-statistics-full-the-mega-server

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.

Bureau of Labor Statistics Full — The Mega Server MCP

5 tools available
Cloud-hosted on Vinkius

Figuring out where the economy's heading used to mean spending days cross-referencing spreadsheets from disparate government sites. Now, your agent handles it all automatically. This MCP connects you directly to the full range of Bureau of Labor Statistics data, giving you a complete picture of the American labor market and pricing trends.

Instead of manually pulling CPI numbers to check inflation against unemployment rates, you simply ask your AI client for a comparative analysis across multiple years. You can track everything from national job openings using JOLTS to hyper-specific wage growth in certain occupations at county level. It's the ultimate data backbone for anyone needing macroeconomic insight.

Connecting this MCP through Vinkius means all those core economic indicators—prices, jobs, labor force status, and local metrics—are available through a unified connection point. You just ask your agent what you need to know, and it draws the complete picture right away.

Core Capabilities

01 — Track national inflation trends

Get Consumer Price Index (CPI-U) data to monitor changes in consumer buying power.

02 — Monitor job openings and turnover rates

Pull the latest JOLTS metrics to see how quickly jobs are opening or disappearing nationally.

03 — Forecast labor market health

Retrieve Nonfarm Payrolls data for total employment figures, which helps predict overall job growth.

04 — Calculate national unemployment rates

Get the Current Population Survey (CPS) figure to understand labor force tightness and general workforce health.

05 — Query complex historical economic data

Run generic time-series queries against BLS using specific series IDs for advanced research.

One Click on Vinkius — From Prompt to Execution

Available at **vinkius.com/mcp/bureau-of-labor-statistics-full-the-mega-server** — connect your AI agent in three steps.

01 Connect your preferred AI client to the Vinkius catalog and select this MCP.

02 Give your agent a complex query, such as 'Compare inflation year-over-year with Nonfarm Payrolls for Q3.'

03 The agent executes multiple underlying data calls in sequence, then synthesizes the raw statistics into one clear answer.

The bottom line is that you speak naturally to your AI client and it handles all the necessary data retrieval from complex economic databases.

Built For

This MCP is built for serious financial modelers, quantitative researchers, and corporate strategists. If your job involves understanding how interest rate movements or regional labor shifts affect investment decisions, you need this access.

Financial Analyst

Checks if recent changes in Nonfarm Payrolls justify a shift in portfolio risk models.

Economist/Researcher

Models the relationship between CPI-U inflation and unemployment rates across different time periods.

Corporate Strategist

Compares local labor market conditions (using LAUS data) in potential expansion states versus current operating locations.

What Changes When You Connect

01 Cross-reference job demand: By using `get_jolts_data` alongside wage data, you instantly see if high open rates are matched by actual pay increases.

02 Track cost changes accurately: Use `get_cpi_inflation` to benchmark historical price shifts against current earnings reports for accurate forecasting.

03 Gauge overall economic health: Combining Nonfarm Payrolls with the unemployment rate gives a single, powerful view of labor market temperature.

04 Analyze regional disparities: The MCP allows you to compare local metrics across different states and counties using specialized data points.

05 Deep historical lookback: The `query_bls` tool lets you dive into 20-year deep datasets for institutional research without manual API calls.

Real-World Applications

Forecasting Fed Interest Rate Moves

A fund manager needs to predict rate changes. They ask the agent to combine `get_nonfarm_payrolls` and `get_cpi_inflation` data from the last quarter, determining if wage growth is outpacing inflation enough to warrant a hike.

Assessing Local Market Expansion Risk

A corporate planner wants to move into a new state. They ask the agent to compare `get_unemployment_rate` and local metrics for three potential cities, quickly identifying which location offers the best labor absorption rates.

Modeling Tech Sector Compensation Trends

A research institution wants to see how job openings (`get_jolts_data`) in tech compare to average wages. They run a cross-analysis to determine if high demand is translating into premium pay.

Comparing State Labor Strengths

An economic consultant needs to report on regional differences. They instruct the agent to compare local unemployment rates between Texas and California using specific geographical metrics.

Patterns to Avoid

Asking for a single data point

✗ AVOID

Just asking for the 'current inflation rate' is too narrow. You only get one number and lose context on how that rate changed over time.

✓ INSTEAD

Use `get_cpi_inflation` to track historical trends, comparing year-over-year changes with other metrics like Nonfarm Payrolls to build a full picture.

Only looking at job openings

✗ AVOID

Running only the JOLTS data tells you how many jobs are open, but doesn't say if people can actually afford to work or if pay is rising.

✓ INSTEAD

Cross-reference `get_jolts_data` with wage statistics and Nonfarm Payrolls to ensure job openings translate into real economic opportunity.

Missing local context

✗ AVOID

Using only national unemployment rates ignores the fact that some major metropolitan areas are struggling while others thrive.

✓ INSTEAD

Use the MCP's local metrics capabilities to compare state and county-level data, giving you hyper-local labor insights.

The Right Fit

Use this MCP if your work requires modeling macroeconomic relationships—specifically comparing inflation (via `get_cpi_inflation`) with job market activity (`get_jolts_data`, `get_nonfarm_payrolls`). It's essential for anyone building financial models or writing deep-dive economic reports. Don't use it, though, if you need proprietary company financials, internal sales data, or metrics specific to a single industry outside of the standard BLS classifications; those require different tools entirely.

Using Bureau of Labor Statistics Full — The Mega MCP for AI Agents: Analyzing US Inflation and Economic Data

Today, gathering a complete economic picture is tedious. You're stuck jumping between the CPI page to check inflation, then switching tabs to find Nonfarm Payrolls numbers, and finally pulling historical unemployment data into separate spreadsheets just for comparison.

With this MCP, your agent handles that entire process in one go. Give it a prompt like 'What was the relationship between wage growth and prices over the last decade?' It gathers all necessary time-series data and spits out an analysis you can actually use.

Bureau of Labor Statistics Full — The Mega MCP for AI Agents: Modeling Local Labor Market Shifts

The biggest manual headache is comparing local markets. You have to manually pull data points for different states and counties, hoping they all use the same reporting period, just to see if one area is lagging behind another.

Now you can ask your agent to compare LAUS metrics across two specific regions in a single prompt. It handles the complex cross-referencing of state and county level labor data instantly.

5 Tools in BLS Full — The Mega MCP for Analyzing Economic Data

Use these specialized tools to pull specific American labor market metrics, from national unemployment rates to local area wage data.

#	TOOL	DESCRIPTION
01	`get_cpi_inflation`	Retrieves the Consumer Price Index (CPI-U) data to track national inflation shifts over time.
02	`get_jolts_data`	Accesses Job Openings and Labor Turnover Survey (JOLTS) metrics to gauge job market turnover.
03	`get_nonfarm_payrolls`	Pulls the total Nonfarm Payroll employment count, a key indicator for overall US job growth.
04	`get_unemployment_rate`	Gets the national unemployment rate from the Current Population Survey (CPS) data set.
05	`query_bls`	Runs a generic, advanced time-series query against BLS using specific numerical series IDs.

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 overall economic picture—inflation, jobs, and unemployment—for last quarter?

Macroeconomic Indicator Suite

- **Inflation (CPI-U)**: Up 0.3% MoM (YoY increase of 3.4%).
- **Nonfarm Payrolls**: Added 216,000 jobs last month.
- **Unemployment Rate**: Held steady at 3.7% nationally.

These combined figures show a stable labor market that is absorbing job growth even as inflation pressures persist.

U Compare job openings in tech versus the average wage pay for those roles.

Tech Sector Demand Analysis

Using current job opening metrics, the 'Information' sector shows 105,000 open positions. When cross-referencing these with occupational wage data (Code 15-1252), we see that median pay for Software Developers stands at **$132,270** annually.

The combination suggests high demand is maintaining premium compensation levels.

U What's the difference in unemployment rates between Texas and California right now?

Local Area Comparison: TX vs CA

- **Texas**: 3.9% Unemployment (stable reading).
- **California**: 5.1% Unemployment (showing upward trend).

The data shows that Texas currently has a significant advantage in labor absorption rates compared to the tighter markets seen across California metros.

Frequently Asked Questions

01 **How can the Bureau of Labor Statistics Full — The Mega Server MCP help me model economic predictions?**

It allows you to run complex, multi-variable queries across decades of data. You stop guessing and start modeling by comparing factors like wage growth against inflation or job openings over specific time periods.

02 **Does the Bureau of Labor Statistics Full — The Mega Server MCP cover regional labor differences?**

Yes. It provides local area metrics that let you compare unemployment and employment rates between different states and counties, which is crucial for localized strategy planning.

03 **Is this better than just using a public BLS API key directly?**

It's much easier. The MCP wraps up dozens of complex data streams into simple, conversational tools. You don't need to know the underlying series IDs; you just ask for what you want.

04 **Can I use the Bureau of Labor Statistics Full — The Mega Server MCP for financial modeling?**

Absolutely. Financial analysts rely on this data to forecast interest rates and assess market stability by cross-referencing Nonfarm Payrolls with inflation trends.

05 **What kind of historical data can the Bureau of Labor Statistics Full — The Mega Server MCP provide?**

It provides deep, long-term datasets covering major economic indicators like CPI-U and unemployment rates, giving you a 20-year view for accurate trend analysis.

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 `"bureau-of-labor-statistics-full-the-mega-server": { "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

Bureau of Labor Statistics Full — The Mega Server 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

INDEPENDENT PLATFORM DISCLAIMER

DOCUMENT INFORMATION

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Platform	Vinkius Cloud for AI Agents
Endpoint	`https://edge.vinkius.com/{token}/mcp`

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