

MCP SERVER

NO CODE

CLOUD HOSTED

Lightcast Labor Market MCP

Map Skills to Jobs and Regions in Minutes.

Lightcast Labor Market lets your AI agent pull deep labor market data directly from Lightcast. You can track specific skill taxonomies, monitor job titles across regions, and analyze workforce intelligence with simple conversation prompts. This tool connects you to the industry's standard index for skills and occupations.

A+ Quality Score 100/100

labor-market-data

skill-taxonomy

workforce-planning

economic-analysis

job-market-trends



The infrastructure that powers AI agents in the real world.



Vinkius connects AI to the world's software through secure, enterprise-grade infrastructure — enabling real-world execution at scale, built on the Model Context Protocol (MCP).

Your AI Connections Run Through Vinkius Cloud

The world's largest
managed MCP catalog

Vinkius is the cloud infrastructure where AI agents connect 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.

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.

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.

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

Encryption at rest

Ed25519

PKI vault signatures

24h TTL

Ephemeral session keys

V8 Isolate

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.

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.

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.

06 — Honeypot Trap System

Phantom credentials are injected into isolated environments. If a honeypot 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.

FinOps

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

Firewall & DLP

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

Agent Activity

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

Tool Health

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

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.

Lightcast Labor Market MCP

10 tools available

Cloud-hosted on Vinkius

This MCP gives your AI client access to the world's leading labor market analytics through Lightcast. You stop pulling data from separate dashboards and start asking questions. Need to know what specific job titles are currently in demand? Or maybe you want a high-level summary of skills and jobs in the Pacific Northwest? Your agent handles it.

This integration lets you query over 30,000 standardized technical and soft skills using natural language. You can also map curriculum requirements to official skill taxonomies or check regional wage trends for economic planning. When you use Vinkius, this MCP becomes one of the key services your agent calls, turning complex labor research into simple conversation.

It's designed for workforce strategists and analysts who need structured data—not just general reports—to make hiring decisions or educational policy changes.

Core Capabilities

01 — Analyze Regional Job Trends

You get high-level labor market summaries, including wage trends and job volumes, for any specific economic region.

03 — Map Job Titles and Occupations

It finds and resolves unique identifiers for job titles and occupations, even when regional naming conventions differ.

02 — Identify Standardized Skills

The tool retrieves detailed definitions and lists all 30,000+ standardized technical and soft skills recognized by the industry.

04 — Audit Workforce Health

You receive instant summaries detailing skill distributions and occupation volumes across an organization or sector.

One Click on Vinkius — From Prompt to Execution

Available at vinkius.com/mcp/lightcast-labor-market — connect your AI agent in three steps.

- 01 Connect the Lightcast integration to your AI agent using your required Client ID and Secret.
- 02 Ask your agent a question, like 'What are the top skills for Data Science in New York?'
- 03 The MCP executes the necessary calls and returns structured labor market data directly into your conversation.

The bottom line is that you get actionable workforce intelligence without having to write or run complex code.

Built For

This MCP is for HR leaders, economic analysts, and educational curriculum designers. If your job involves matching human talent to market demand—or predicting skill gaps across geographies—you need this.

Talent Acquisition Manager

Uses the tool to quickly research standardized job titles or identify specific skills needed for new roles on the go.

Economic Analyst

Monitors regional labor market trends and wage data by requesting high-level summaries for different geographic areas.

Curriculum Developer

Maps academic program curricula against official skill taxonomies to ensure relevance to current job demands.

What Changes When You Connect

- 01 Analyze workforce gaps instantly. Instead of manually cross-referencing multiple spreadsheets, your agent can run a quick labor market audit using `quick_labor_market_audit` to show skill distribution across an entire sector.

-
- 02** Understand job roles immediately. Use the tool's ability to list standardized occupations (`list_standardized_occupations`) and titles (`list_standardized_job_titles`), eliminating guesswork when assessing career paths or job descriptions.
-
- 03** Benchmark regional economies. You can get a high-level market summary for any area, like New York, using `get_labor_market_region_summary` , which includes current wage trends and active job volumes.
-
- 04** Expand skill knowledge easily. If you're working with 'Project Management', the tool automatically suggests related skills using `list_taxonomically_related_skills` , ensuring your curriculum is comprehensive.
-
- 05** Validate your data source. You can use `get_skill_details` to pull exact definitions for a specific skill, giving you confidence in the taxonomy being used by your agent.
-
- 06** Scope out possibilities. Use `list_economic_regions` first; it gives you an exhaustive list of every geography supported before you run any regional analysis.
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Real-World Applications

Designing a new training program for tech workers

A curriculum developer needs to know if their planned 'AI Ethics' module is relevant. They ask the agent, which uses `list_taxonomically_related_skills`, and it returns related skills like 'Machine Learning' and 'Data Governance,' allowing them to adjust the course content before writing a single lesson plan.

Assessing market entry into a new state

A corporate strategist is looking at expanding operations. They ask for labor market data for Texas, using `get_labor_market_region_summary`. The agent reports on median wages and top-demand skills in that specific region, proving or disproving the viability of expansion.

Standardizing internal job codes

An HR leader needs to update 50 different internal job descriptions. They ask the agent to list standardized titles using ``list_standardized_job_titles``, getting a consistent, industry-recognized vocabulary for every role.

Predicting staffing needs during an economic downturn

An operational manager wants a broad view of workforce health. They execute the ``quick_labor_market_audit`` and instantly see skill distribution and occupation volumes, helping them preemptively adjust hiring budgets.

Patterns to Avoid

Treating it like a simple keyword search

X AVOID

Asking the agent 'What is Data Science?' without context. The response will be vague and won't provide actionable, standardized data points.

✓ INSTEAD

Always specify your intent. Instead of just asking about skills, ask: 'Give me the high-level summary of skill distribution for the finance sector.' This triggers ``quick_labor_market_audit`` and gives you metric-rich answers.

Confusing job titles with specific roles

X AVOID

Trying to get a list of all 'Software Developer' types, but only getting generic text. The output lacks the standardized industry code needed for payroll or reporting.

✓ INSTEAD

Use ``list_standardized_job_titles`` first to pull the official, recognized titles and their corresponding unique IDs. This ensures your data is universally compatible.

Ignoring regional boundaries

X AVOID

Assuming that skill demand in New York City applies equally to rural Pennsylvania. The agent gives a general answer when you need local truth.

✓ INSTEAD

Always specify the geography. Use ``list_economic_regions`` to confirm the supported area, then request the summary using ``get_labor_market_region_summary`` for accurate regional data.

The Right Fit

Use this MCP if your primary need is structured, quantifiable labor market intelligence—specifically skill taxonomies, job title standardization, or regional economic summaries. If you're doing workforce planning, educational mapping, or competitive analysis,

this tool is essential.

Don't use it if all you need is a simple definition of a single term; in that case, general knowledge tools will suffice. Also, don't rely on it for proprietary company data; Lightcast provides public market metrics. If your task involves internal HR policy changes or specific employee records, you need an internal database connection, not this market intelligence MCP.

The Problem of Unstructured Skill Data

Right now, if your team needs to know the true skill gap between its current workforce and industry demands, you spend weeks manually clicking through multiple HR dashboards. You pull reports on 'Job Titles' from one tab, cross-reference 'Skills' in a second system, then try to find regional wage data by digging into a third source. It's a tedious cycle of copy-pasting and reconciling inconsistent nomenclature.

With this MCP, you just talk to your agent. You ask: 'What are the top skills needed for FinTech managers in California?' The tool handles all those connections—standardizing job titles, checking regional wage trends, and mapping required skills—and gives you a single, coherent answer.

Get Standardized Job Title Intelligence

The most wasteful part of the old process was dealing with synonyms. One department calls an employee an 'Application Developer,' while another calls them a 'Software Builder.' You waste time mapping these internal variations to industry standards, slowing down hiring and reporting.

Now, running `list_standardized_job_titles` instantly gives you the official, recognized names used across the entire labor market. It cuts out the ambiguity and lets your team focus purely on strategy.

Lightcast Labor Market: 10 Tools for Workforce Analysis

These tools let your agent perform specific actions—from listing all possible skills to summarizing job market data for a given region.

#	TOOL	DESCRIPTION
01	<code>get_lightcast_api_metadata</code>	Checks the status and authorization details of your Lightcast API connection.
02	<code>quick_labor_market_audit</code>	Pulls a quick, high-level summary showing the distribution of skills and occupations in the index.
03	<code>get_labor_market_region_summary</code>	Retrieves an overall labor market overview for any specified economic region.
04	<code>get_skill_details</code>	Gives detailed definitions and settings for one specific skill taxonomy entry.
05	<code>list_standardized_job_titles</code>	Provides a comprehensive list of standardized job titles recognized in the Lightcast index.
06	<code>list_standardized_occupations</code>	Lists all occupations categorized by industry standards (SOC/O*NET compatible).
07	<code>list_economic_regions</code>	Generates a list of geographical and economic regions supported by the Lightcast API.
08	<code>list_taxonomically_related_skills</code>	Identifies other skills that are conceptually related to a target skill you specify.
09	<code>list_skill_taxonomic_categories</code>	Outputs the high-level grouping categories for all available skill taxonomies.
10	<code>list_labor_market_skills</code>	Lists all technical and soft skills contained within the Lightcast taxonomy, categorized as general or specialized.

See It in Action

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

U Search for skills related to 'Data Science'.



I've found several related skills, including 'Python (Programming Language)', 'Machine Learning', 'SQL (Programming Language)', and 'Data Analysis'. Would you like the detailed definition for Machine Learning?

U Show me standardized job titles for 'Software Engineer'.



Standardized titles matching 'Software Engineer' include 'Software Developer', 'Full Stack Engineer', 'Back End Developer', and 'Embedded Software Engineer'. Should I pull the occupation code for Full Stack Engineer?

U Get a labor market summary for 'New York'.



In the New York region, there are currently 1.2 million active job postings. The median advertised wage is \$85,000. Top in-demand skills include 'Project Management' and 'Strategic Planning'. Would you like to see the top hiring employers?

Frequently Asked Questions

01 How do I use Lightcast Labor Market to check regional wages?

To get a wage overview, use ``get_labor_market_region_summary`` and specify the economic region you care about. This provides median advertised wages alongside job volumes.

02 Can I find out what skills are related to 'Cloud Computing' using Lightcast Labor Market?

Yes, use ``list_taxonomically_related_skills``. It will identify other technical and soft skills that are conceptually linked to your target skill.

03 Does the Lightcast Labor Market MCP list all possible job roles?

You can view standardized occupations using ``list_standardized_occupations``, which provides a comprehensive, categorized list compatible with industry standards like O*NET.

04 What is the best way to audit my company's current skill set?

Start by calling ``quick_labor_market_audit``. This gives you an immediate high-level summary of general skill and occupation distribution that helps benchmark your internal data.

05 Do I need to know the API keys for Lightcast Labor Market?







Yes, the tool requires a Client ID and Secret. You'll use ``get_lightcast_api_metadata`` first to ensure your connection is authorized before running any 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 <code>"lightcast-labor-market": { "url": "..." }</code>
 Windsurf	MCP Settings → <code>mcp_settings.json</code> → 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

Lightcast Labor Market 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](https://cloud.vinkius.com) →

vinkius.com · support@vinkius.com

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