MCP SERVER | NO CODE | CLOUD HOSTED

# Employer Cost Calculator MCP

## Find the true total cost to hire an employee.

Employer Cost Calculator helps finance teams determine the full financial obligation of an employee. It goes far beyond base salary, calculating mandatory costs like taxes, risk premiums, and provisions for severance or holidays. You get a precise total monthly cost, along with clear breakdowns of how much is tax burden versus required provision money.

A+ Quality Score 100/100

salary | taxes | payroll | employment | cost-analysis

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vinkius.com/mcp/employer-cost-calculator

SCAN TO VIEW

# 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.

**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.

# Employer Cost Calculator MCP

3 tools available
Cloud-hosted on Vinkius

Figuring out what it really costs to hire someone is messy. Most people only look at the base salary number, but that figure misses half the picture. The Employer Cost Calculator handles all the mandatory financial requirements: Social Security contributions, third-party levies, and provisions for things like annual bonuses or separation pay. You feed in the initial parameters, and your agent calculates the total monthly obligation for you. It doesn't just give one number; it breaks down exactly what percentage of that cost comes from salary versus mandated employer burdens. When using this MCP through Vinkius, you get a complete financial picture without needing specialized payroll software or jumping between multiple compliance spreadsheets.

## Core Capabilities

**01 — Determine total monthly costs**

Calculates the full required monthly budget for an employee, including all mandated taxes and provisions.

**02 — Calculate effective hourly rate**

Converts a large monthly cost figure into a usable labor rate per hour.

**03 — Analyze salary composition**

Shows the precise percentage split, telling you how much of the total expense is base pay versus required employer contributions.

## One Click on Vinkius — From Prompt to Execution

Available at **vinkius.com/mcp/employer-cost-calculator** — connect your AI agent in three steps.

01 Input the employee's base salary and the various mandatory cost percentages (e.g., tax rates, provision amounts).

02 The MCP runs calculations to determine the full total monthly obligation, separating out the taxable portions from the required provisions.

03 You receive a detailed breakdown showing the total cost, the amount dedicated to taxes, and the specific funds set aside for future benefits.

The bottom line is you get an accurate financial model that reflects the true spending power of hiring someone.

## Built For

Finance Analysts who budget headcount, HR Directors managing budgets, and Payroll Specialists running compliance reports. These are people whose job depends on knowing the exact number before signing a contract.

**HR Director**

Uses this MCP to model various salary structures and determine which compensation packages fit within the annual department budget.

**Payroll Specialist**

Runs compliance checks, using the total cost calculation to ensure all mandatory levies are accounted for before running payroll.

**Finance Analyst**

Calculates department overhead and determines the effective hourly labor rate needed for departmental budgeting or project costing.

## What Changes When You Connect

01 Stop guessing at staffing costs. The `calculate_monthly_total_cost` tool gives you a precise budget number, accounting for every tax and provision, so your hiring numbers are reliable from day one.

02 Budgeting is easier with clarity. By using `analyze_cost_composition`, you instantly see the percentage split between base salary and mandatory employer burdens, making cost discussions crystal clear.

03 Turn monthly budgets into hourly rates. Instead of just knowing a total number, `calculate_hourly_cost` converts that full financial picture into an effective labor rate per hour for easier comparison against other costs.

04 Audit compliance instantly. The calculator forces you to account for provisions like severance and holidays, ensuring your budget matches the legal requirements, not just the salary sheet.

05 Save time on spreadsheets. Instead of manually adding up taxes, levies, and provisions across three different tabs, you pass all variables into one tool call.

## Real-World Applications

**Budgeting a new department headcount**

The HR Director needs to know if they can afford five new engineers. They run the `calculate_monthly_total_cost` for each role, getting back the true budget requirement including all taxes and benefits. This prevents them from over-committing funds based on salary alone.

**Comparing internal vs. external hires**

A manager needs to decide if hiring a contractor is cheaper than an employee. They run the `calculate_hourly_cost` for both options using their respective full cost structures, getting an apples-to-apples comparison based on effective hourly labor rates.

**Adjusting salary bands for compliance**

A payroll specialist is told a role needs to be cheaper. They use `analyze_cost_composition` to see that the employer burden makes up 25% of the total, realizing they need to adjust the base salary much more drastically than initially thought.

**Modeling cost changes due to new legislation**

A finance analyst must model a new tax law. They update one variable (the tax rate) and immediately rerun the `calculate_monthly_total_cost` to see how much the total financial obligation jumps, allowing them to warn leadership proactively.

# Patterns to Avoid

### Using only base salary data

✗ AVOID

A manager estimates a new hire will cost $7,000/month because they only looked at the pay stub. They forget about taxes, provisions for holidays, and risk premiums.

✓ INSTEAD

Don't estimate. Use `calculate_monthly_total_cost` to model the full budget using all required inputs. This ensures your total number includes every mandatory levy.

### Calculating cost without factoring provisions

✗ AVOID

You calculate a salary and taxes but forget to add provision for severance or annual bonuses, leading to an artificially low initial budget.

✓ INSTEAD

Always run the full calculation using `calculate_monthly_total_cost`. This tool forces you to include those long-term obligations in your current monthly spending plan.

### Comparing costs by just dividing salary

✗ AVOID

Someone tries to estimate an hourly rate by taking the base salary and dividing it by 160 hours, missing all the added employer overhead.

✓ INSTEAD

Use `calculate_hourly_cost`. It takes the *total* calculated cost—the full financial obligation—and correctly converts that into a true effective labor rate.

## The Right Fit

You use this MCP if you need to know the absolute, legally mandated total expense of an employee. If your budget planning relies only on base salary figures and ignores provisions for holidays or taxes, you're going to run into problems later. This tool is critical when comparing cost structures across different geographies or departments because it normalizes every expenditure type into a single figure.

Don't use this if you just need to calculate simple payroll deductions (like taking 10% off an hourly wage). For basic calculations, standard spreadsheets work fine. But the moment compliance, provisions, and mandatory levies enter the picture, this MCP is necessary because it handles the complex interplay between base pay and employer burden—something no simple formula can manage.

## The hidden costs in payroll budgets are always a headache.

Today, calculating an employee's true cost means juggling multiple spreadsheets. You start with the base salary and then have to manually add columns for Social Security contributions, risk premiums, third-party levies, holiday provisions, and annual bonuses. It's a massive copy/paste job that makes it easy to forget a variable or use outdated rates.

With this MCP, you feed in your initial parameters once. The tool runs the complexity, returning the final number—the total monthly obligation—and providing separate breakdowns for tax burden versus provision fund. You get clean, actionable numbers without touching a spreadsheet formula.

# Analyze Cost Composition with Employer Cost Calculator MCP

Before this, figuring out if the employer contributions were proportionally high or low required complex percentage calculations across multiple cost inputs. You'd have to build a separate model just to determine how much of the total expense came from mandatory overhead.

Now you simply call `analyze_cost_composition`. It immediately gives you the base salary percentage versus the employer burden percentage, telling you exactly where your money is going in one clean readout.

# Employer Cost Calculator with 3 Tools

These tools give you complete visibility into staffing budgets by calculating total costs, breaking down expense composition, or determining the effective hourly labor rate.

| # | TOOL | DESCRIPTION |
|---|---|---|
| 01 | `calculate_hourly_cost` | Takes a total monthly cost figure and converts it into an equivalent effective hourly labor rate. |
| 02 | `calculate_monthly_total_cost` | Calculates the full financial obligation for an employee, returning the total cost, tax burden, and provision burden separately. |
| 03 | `analyze_cost_composition` | Breaks down the proportion of salary that is actually hidden in employer taxes and mandatory provisions. |

# See It in Action

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

**U** What is the total monthly cost for an employee with a $5,000 salary, 20% social security, 2% risk premium, 5.8% third-party levies, 8% severance, 1/3 holiday provision, 8.33% annual bonus, and 4% indemnity?

The total monthly cost for this employee is $6,156.50. This includes a tax burden of $656.50 and a provision burden of $498.00.

**U** If the total monthly cost is $6,156.50 and the employee works 160 hours per month, what is the hourly rate?

The effective hourly labor rate is $38.48.

**U** For a $5,000 salary and a total cost of $6,156.50, what is the percentage split between salary and burdens?

The base salary represents 81.21% of the total cost, while the employer burden accounts for 18.79%.

# Frequently Asked Questions

01 **How does Employer Cost Calculator handle provisions for holidays?**

The MCP includes holiday provision funding when calculating the total cost. You input the required percentage, and the tool treats it as a mandatory part of the employer's financial obligation.

02 **What is the difference between `calculate_monthly_total_cost` and just using salary data?**

`calculate_monthly_total_cost` calculates your total spending commitment. It adds taxes, levies, and provisions to the base salary, giving you the full financial picture necessary for proper budgeting.

03 **Can I use Employer Cost Calculator MCP to find an hourly rate?**

Yes. You can run `calculate_hourly_cost` after determining your total monthly budget figure. This converts the overall cost into a simple, actionable effective labor rate per hour.

04 **Does analyze_cost_composition only look at taxes?**

No. It looks at all employer burdens—taxes, levies, and provisions. It tells you what percentage of the total cost is mandatory overhead versus actual base compensation.

# 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 `"employer-cost-calculator": { "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

# Employer Cost Calculator 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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