

Research API Guide

Career Automation Insights Engine

Version: 1.0

Last Updated: October 2025

Overview

This guide provides researchers with API endpoints, schemas, and example queries for accessing occupation data, APO scores, and telemetry.

Endpoints

1. POST /functions/v1/calculate-apo
Body: { occupation: { code: "15-1252", title: "Software Developers" } }
Returns: APO analysis with category breakdowns
2. POST /functions/v1/search-occupations
Body: { keyword: "nurse", filters: { brightOutlook: true }, limit: 20 }
Returns: List of occupations with enrichment data
3. GET /functions/v1/crosswalk?from=SOC&code=15-1252
Returns: Crosswalk mappings (MOC, CIP, ESCO, etc.)

Authentication

- Requires Supabase API key (anon or service role)
- Include in Authorization header: Bearer <token>
- Contact us for researcher access credentials

Schemas

APO Response: { code, title, overallAPO, tasks[], knowledge[], skills[], abilities[], technologies[], categoryBreakdown, insights, metadata }

Occupation: { occupation_code, occupation_title, bright_outlook, is_stem, median_wage_annual, job_zone, career_cluster, ... }

Governance & Privacy

- No PII collected; occupation codes and public O*NET data only
- Telemetry anonymized; RLS enforced on user-facing tables
- Rate limits: 30 req/min default; contact for higher limits

Contact

For API access or questions, visit /resources or GitHub repository.