



2035 - THE EDGE AI REVOLUTION: WHEN 80% OF AI MIGRATES TO THE EDGE

From centralized AI to distributed intelligence:
Technologies, Markets and Strategic Issues 2020-2035

Target Sectors

Industry 4.0, Healthcare, Smart Cities, Automotive,
IT & Telecom, Retail, Agriculture, Energy & Utilities




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**SECTION 5 –
EMPLOYMENT**

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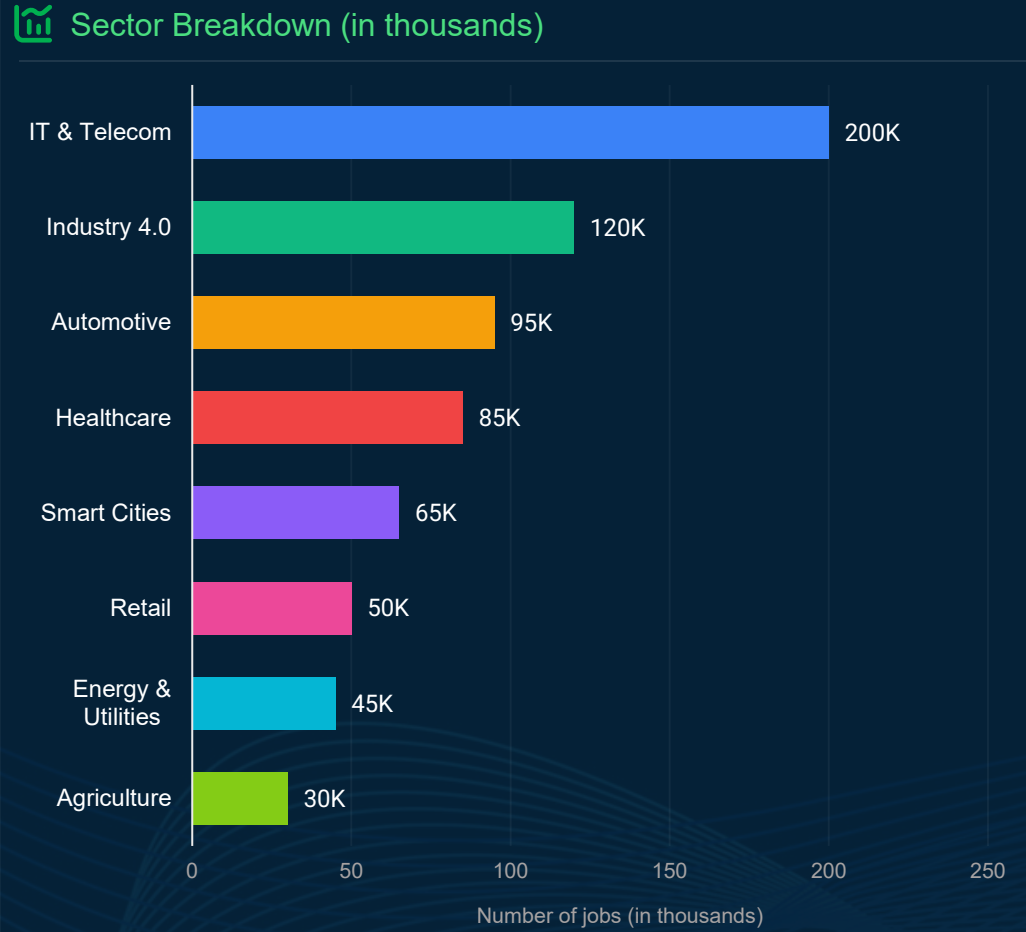
690K Edge & Cloud AI jobs : which sectors are hiring the most?

IT/Telecom and Industry 4.0 account for 46% of opportunities – Full sector analysis

690K
 Net global job creation (2027–2035)

2.3M
 Talent shortage by 2027

+56%
 AI salary premium



IT & Telecom and Industry 4.0 concentrate 46% of new Edge AI jobs

- IT & Telecom** Top Sector
 Trend: Massive deployment of 5G, distributed architectures
 Skills: Edge Orchestration, Kubernetes, Low-latency networking
- Industry 4.0** Strong Growth
 Trend: Autonomous factories, real-time predictive maintenance
 Challenges: IT/OT convergence, industrial cybersecurity
- Automotive** High Value
 Trend: Software-defined vehicles (SDV), autonomous driving
 Outlook: Explosion in demand for embedded AI
- Healthcare** Critical
 Trend: On-device diagnostics, robotic surgery
 Skills: Ethical AI, patient data privacy
- Smart Cities**
 Trend: Intelligent traffic management, public safety
 Challenges: Large-scale system interoperability
- Retail**
 Trend: Autonomous stores, in-store personalization
 Skills: Computer vision, behavioral analytics
- Energy & Utilities**
 Outlook: Key role in the energy transition
 Trend: Decentralized smart grids, renewable optimization
- Agriculture**
 Trend: Precision agriculture, autonomous robots
 Challenges: Connectivity in remote rural areas

Cloud AI & Edge AI talent geography : Where are the 690K jobs being created?

North America (40%), Europe (30%), Asia-Pacific (25%), Rest of the World (5%)



Cloud AI vs Edge AI new Jobs: 72 Emerging Roles

Transformation of professional profiles with a critical need for hybrid skills

Cloud AI Roles

- Cloud AI Architect
- Data Pipeline Eng.
- Dist. Systems Eng.
- AI Product Manager
- ML Platform Engi.
- Cloud AI Security
- Cloud MLOps Eng.
- Cloud AI Ethics

Required Skills

Cloud AI Skills

- Python & PyTorch
- Cloud Arch.
- Big Data
- API Design
- Dist. Compute

Edge AI Skills

- C++/Rust
- IoT Protocols
- Embedded ML
- Hardware Opt.
- RTOS
- Low-power

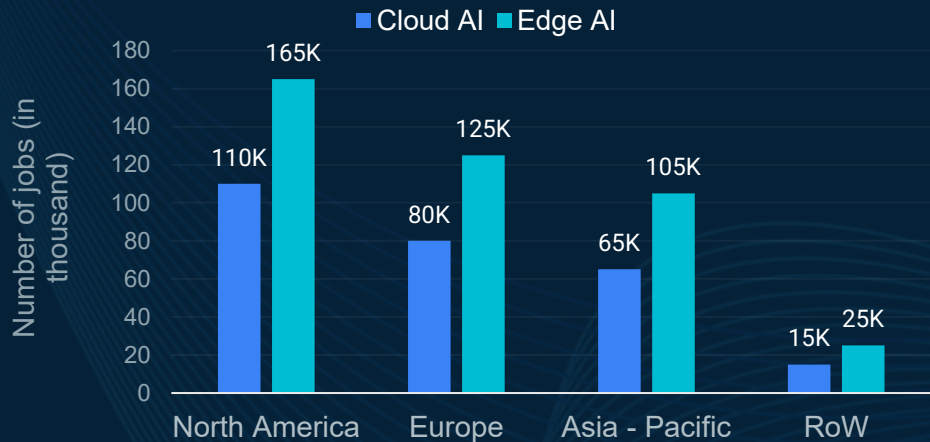
Transversal Skills

- Data Science
- MLOps
- Cybersec
- AI Ethics

Edge AI Roles

- Edge AI Eng.
- IoT AI Developer
- Real-time Syst. Eng.
- Hardware AI Opt.
- Embedded ML Eng.
- Edge Security Arch
- Edge MLOps Spec.
- Edge Privacy Officer

Geographic Distribution: Cloud AI vs Edge AI



Global Synthesis

Edge AI dominates job creation across all regions, with an average ratio of 1.5 to 1 compared to Cloud AI. North America remains the absolute leader in volume (40% of the global total), but Asia-Pacific shows the fastest growth rate, driven by widespread adoption in manufacturing and smart cities.

North America Total: 275K

Leader in software innovation and R&D. High demand for hybrid architects and edge security engineers.

Asia - Pacific Total: 170K

Explosive growth in consumer electronics and robotics. China and Japan leading the way in edge hardware.

Europe Total: 205K

Focus on Industry 4.0 and the automotive sector (Germany, France). Regulation (AI Act) boosts compliance

Rest of the World Total: 40K


Emerging adoption in agriculture (LATAM) and energy infrastructure (Middle East).



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