

A.I. Tech and Innovation

LA REGIONAL PROGRAM ADVISORY

MAY 29, 2025
10:00 AM – 12:00 PM

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CENTERS OF EXCELLENCE
FOR LABOR MARKET RESEARCH

AI Tech and Innovation
REGIONAL PROGRAM ADVISORY

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The LA-19 is leading industry-education partnerships to collaboratively strengthen our region's talent development ecosystem

1. Data-driven research on the supply and demand for talent
2. Industry Councils and Regional Program Advisories
3. Developing work-based learning and employment opportunities

For more information, visit: <https://losangelesrc.org>

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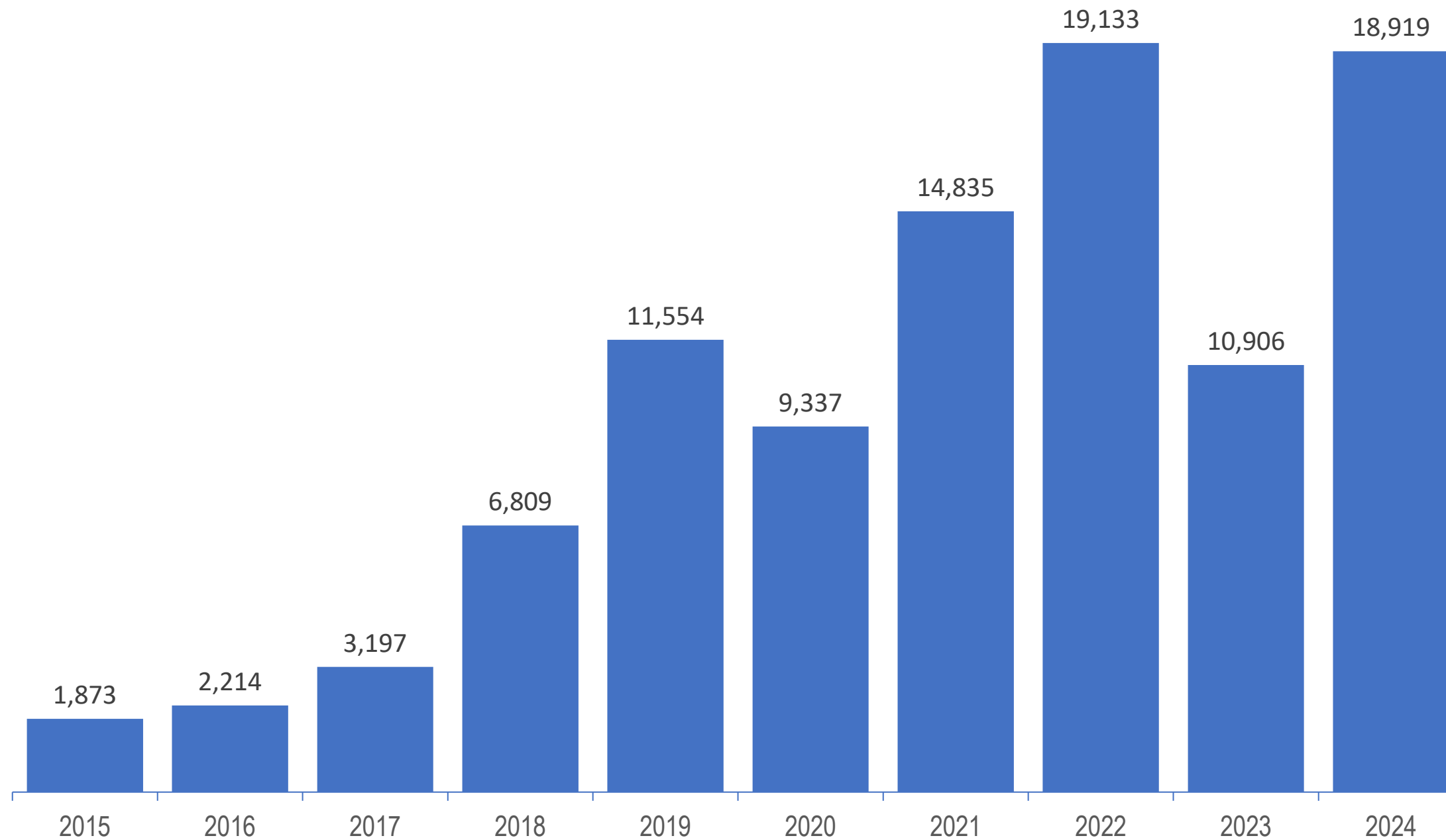
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Impact of AI on the LARC Priority Sectors

- Advanced Manufacturing
- Advanced Transportation & Logistics
- Business & Entrepreneurship / Global Trade
- Energy, Construction, & Utilities
- Health
- Information & Communication Technologies (ICT) / Digital Media
- Life Sciences & Biotechnology
- Retail, Hospitality, & Tourism

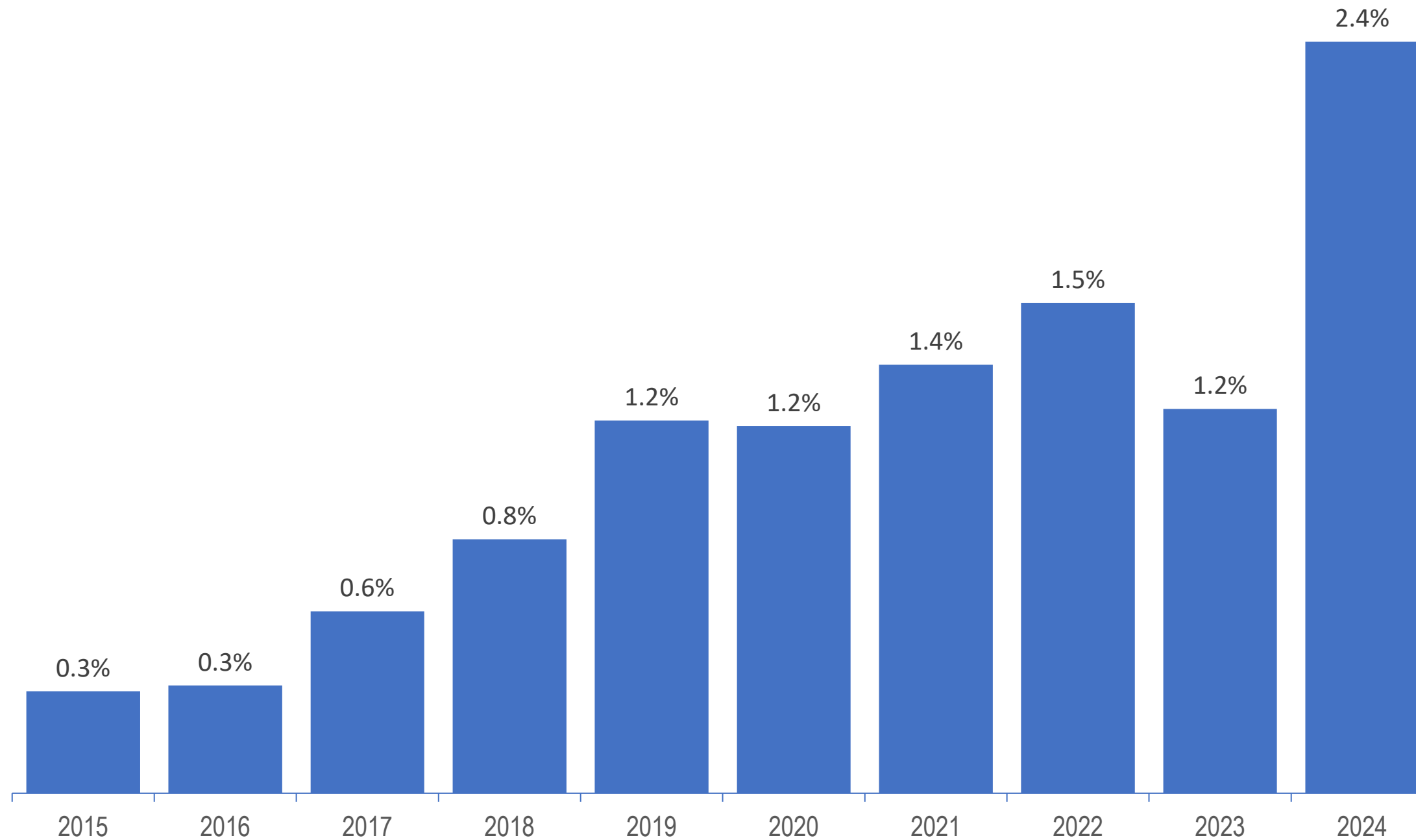
AI-Related Job Postings
Los Angeles County 2015-2024



Source: Lightcast

- In 2015 there were fewer than 1,900 AI-related job postings
- In 2024, more than 18,900 job postings, **a tenfold increase**
- Peak occurred in 2022 with over 19,000 postings
- Dip in 2023, but strong rebound in 2024
- Consistent upward trend since 2018
- AI adoption continued even during job market downturns

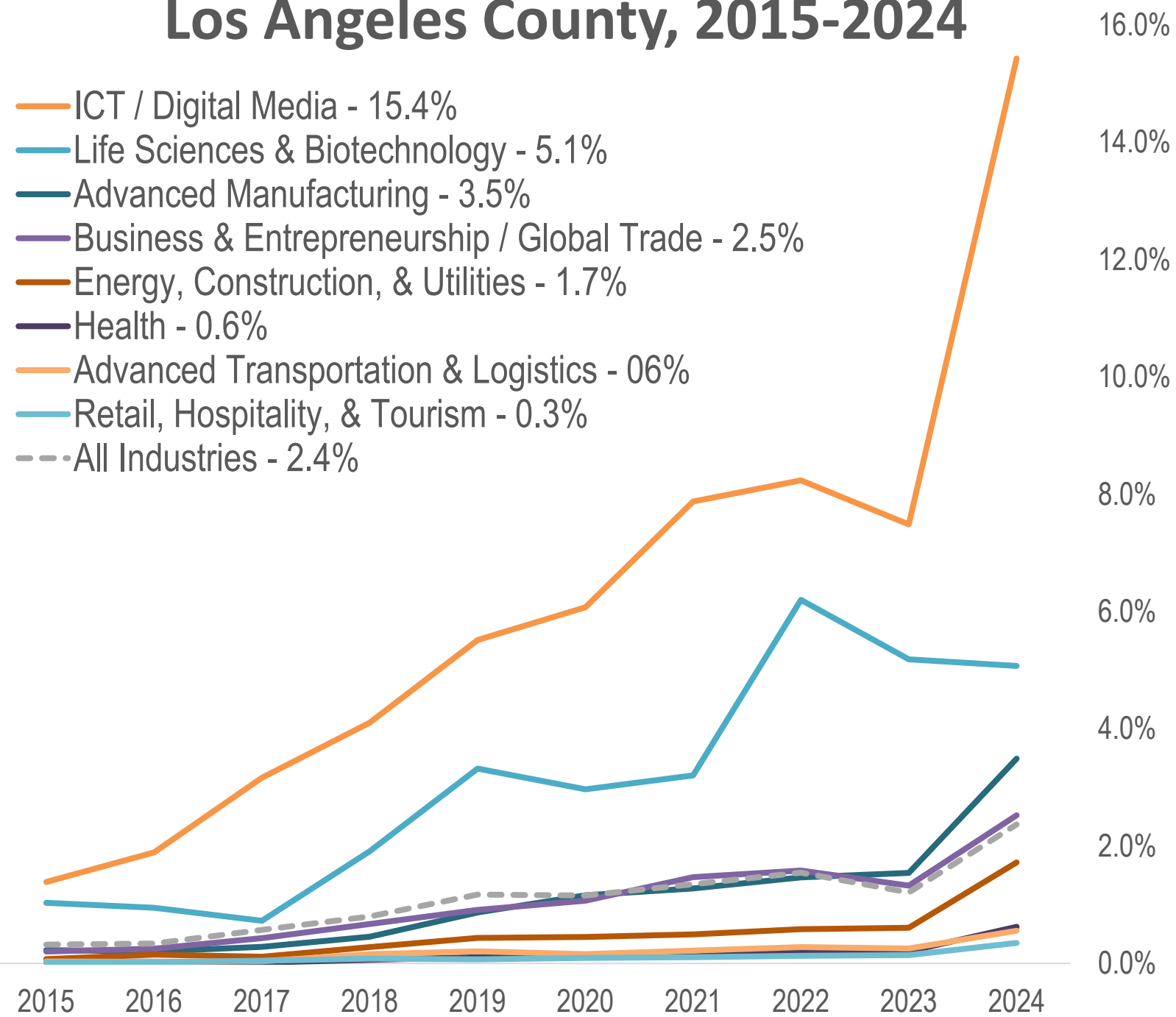
Share of AI-Related Job Postings
Los Angeles County 2015-2024



Source: Lightcast

- 2015: AI keyword appears in 0.3% of all job postings
- 2024: Share grew to 2.4%
- Even in weak job markets (e.g. 2020, 2023), share of AI-related job postings remained strong
- Indicates increasing relevance across sectors, not just tech

Share of AI-Related Job Postings by
Priority Sector
Los Angeles County, 2015-2024



Source: Lightcast

Priority Sector Snapshot

ICT / Digital Media: Over 15% of postings reference AI, more than 3x higher than the next highest sector

- Growth driven by machine learning, generative AI, and automation

Life Sciences & Biotechnology: Over 5% of postings

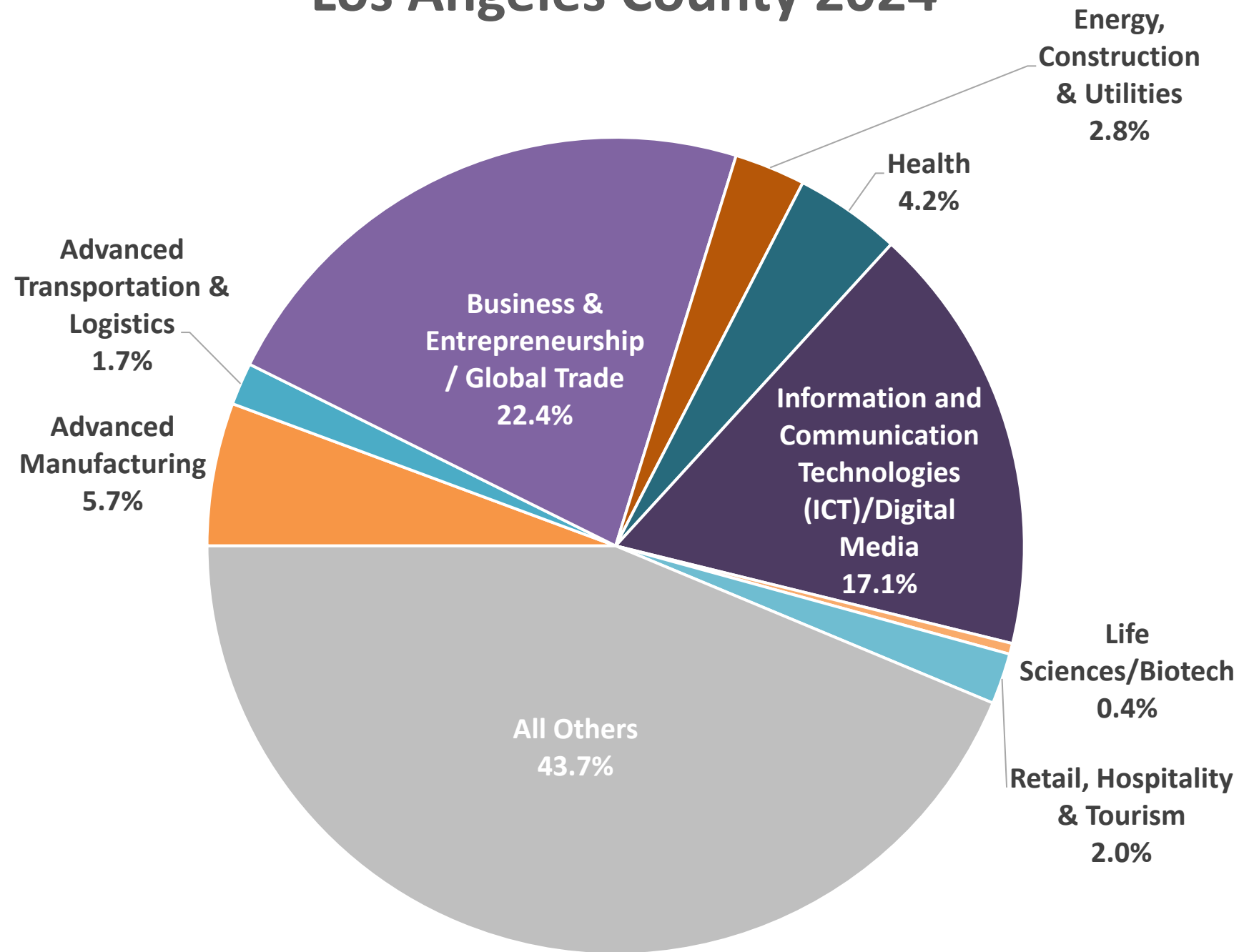
- AI used in diagnostics and lab automation

Advanced Manufacturing and Business & Entrepreneurship / Global Trade: Strong adoption in maintenance, optimization, and finance

Health and Energy, Construction, & Utilities, and Advanced Transportation & Logistics show gradual increase in AI-related postings

Retail, Hospitality & Tourism had the lowest share at 0.3%, with early adoption in marketing, scheduling, and customer engagement

AI-Related Job Postings by Priority
Sector
Los Angeles County 2024



Source: Lightcast

Priority Sector Snapshot

Business & Entrepreneurship / Global Trade had the largest share of overall AI job postings at 22.4%

- Reflects wide use in sales, marketing, finance, and operations

ICT / Digital Media: ranked second with 17.1% of overall AI job postings, despite highest AI intensity

Other Key Sectors:

- **Advanced Manufacturing: 5.7%**
- **Health: 4.2%**
- **Energy, Construction, & Utilities: 2.8%**

Retail, Hospitality & Tourism, Advanced Transportation & Logistics, and Life Sciences & Biotechnology had smaller shares but are growing

AI in Advanced Manufacturing

- 3rd in Share of AI-Related Job Postings
- 3.5% of job postings feature AI tools or competencies

Key Trends

- AI is transforming **production, maintenance, and design** processes
- Improves efficiency, reduces waste, and enhances supply chain response
- Middle-skill workers play a central role in adoption

Key Applications in Middle-Skill Roles:

- **Predictive Maintenance:** AI alerts detect issues early and guide timely repairs
- **Production Monitoring:** Real-time tracking boosts quality and efficiency
- **AI-Enhanced CAD:** AI tools help drafters create optimized designs
- **Digital Twins:** Virtual models allow testing without disrupting operations

Top 5 Occupations with the highest share of AI-Related Job Postings Advanced Manufacturing, 2024

SOC	Detailed Occupation	2024 Share of AI-Related Job Postings
17-3024	Electro-Mechanical and Mechatronics Technologists and Technicians	8.8%
17-3028	Calibration Technologists and Technicians	7.4%
17-3012	Electrical and Electronics Drafters	6.6%
51-8091	Chemical Plant and System Operators	5.4%
51-9162	Computer Numerically Controlled Tool Programmers	3.8%

Implications for Education and Training:

- Teach hands-on use of AI-enabled equipment and diagnostics
- Integrate automation platforms, sensors, and data interpretation
- Offer certifications in smart systems, troubleshooting, and safety
- Blend mechanical and digital skills to prepare for hybrid roles

AI in Advanced Transportation & Logistics

- Among the lowest: **0.6%** of postings referenced AI tools
- Reflects **early-stage adoption** focused on reliability and efficiency

Current Trends

- AI is emerging in **vehicle diagnostics, route planning, warehouse automation, and supply chain coordination**
- Middle-skill roles are critical for maintenance, logistics planning, and system operations

AI Applications in the Sector:

- **Fleet Optimization:** Real-time AI routing reduces delays and fuel use
- **Predictive Maintenance:** AI alerts enable proactive vehicle servicing
- **Warehouse Automation:** Robots and smart shelving improve fulfillment
- **Supply Chain Visibility:** Real-time tracking improves delivery reliability

Top 5 Occupations with the highest share of AI-Related Job Postings Advanced Transportation and Logistics, 2024

SOC	Detailed Occupation	2024 Share of AI-Related Job Postings
49-3053	Outdoor Power Equipment and Other Small Engine Mechanics	3.6%
49-2093	Electrical and Electronics Installers and Repairers, Transportation Equipment	2.6%
49-2096	Electronic Equipment Installers and Repairers, Motor Vehicles	2.4%
13-1081	Logisticians	2.2%
43-5061	Production, Planning, and Expediting Clerks	1.9%

Implications for Education and Training:

- Teach AI-based diagnostics, routing, and inventory tools
- Include automation and analytics to technical coursework
- Combine mechanical, digital, and logistics content
- Support upskilling for current workers adapting to new tech

**AI in Business & Entrepreneurship /
Global Trade**

- Ranked **5th** among LARC sectors
- **2.4%** of job postings mentioned AI tools or competencies

Current Trends

- AI is reshaping **marketing, customer service, data analysis, and decision-making**
- In middle-skill roles, AI enhances efficiency and supports personalized service without replacing human judgment

AI in Practice:

- **Predictive analytics** improve planning and trend analysis
- **Chatbots and personalization** enhance customer interactions
- **Finance software** automates reporting and cash flow monitoring
- **Compliance tools** analyze transactions to flag irregularities

**Top 5 Occupations with the highest share of AI-Related Job Postings
Business & Entrepreneurship / Global Trade, 2024**

SOC	Detailed Occupation	2024 Share of AI-Related Job Postings
13-2082	Tax Preparers	4.6%
41-1012	First-Line Supervisors of Non-Retail Sales Workers	3.9%
41-3011	Advertising Sales Agents	3.1%
41-4012	Sales Representatives, Wholesale and Manufacturing, Except Technical and Scientific Products	2.8%
43-6011	Executive Secretaries and Executive Administrative Assistants	2.6%

Implications for Education and Training:

- Teach use of **CRM, project management, and financial platforms**
- Build **data literacy** with dashboards and reporting tools
- Include **project-based learning** using real or simulated business data
- Emphasize **AI ethics and human oversight**

AI in Energy, Construction, & Utilities

- Ranked **4th** among LARC sectors
- **1.7%** of postings referenced AI tools or skills

Sector Overview:

- AI adoption is growing in **grid monitoring, energy forecasting, and digital construction**
- Middle-skill workers are engaging with **smart systems** for diagnostics, design, and planning

Key AI Applications:

- **Smart Grids:** Real-time load balancing and outage detection
- **AI-Driven Drafting:** BIM and CAD with predictive design tools
- **Predictive Maintenance:** AI alerts based on sensor data
- **Energy Optimization:** Machine learning forecasts for demand and renewables

Top 5 Occupations with the highest share of AI-Related Job Postings Energy, Construction, & Utilities, 2024

SOC	Detailed Occupation	2024 Share of AI-Related Job Postings
17-3011	Architectural and Civil Drafters	4.5%
47-2231	Solar Photovoltaic Installers	4.4%
49-2021	Radio, Cellular, and Tower Equipment Installers and Repairers	3.4%
17-3019	Drafters, All Other	3.4%
49-2095	Electrical and Electronics Repairers, Powerhouse, Substation, and Relay	3.3%

Implications for Education and Training:

- Hands-on use of **AI-enabled design and energy tools**
- Instruction on **grid systems, sensors, and data basics**
- Interdisciplinary courses connecting **mechanical, electrical, and digital systems**
- Certifications in **BIM, energy analytics, and smart building tech**

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AI in Health

- Ranked 6th among LARC sectors
- 0.6% of postings referenced AI-related tools or skills

Sector Overview:

- AI is emerging in **imaging, diagnostics, and patient monitoring**
- Middle-skill workers play a key role in using AI tools in daily healthcare operations

Key AI Applications:

- **Medical Imaging:** Enhances scan accuracy and pattern recognition
- **Decision Support:** Flags urgent cases and supports clinical workflows
- **Predictive Analytics:** Identifies at-risk patients and informs staffing
- **Workflow Optimization:** Automates documentation and scheduling

LARC Priority Sectors

Top 5 Occupations with the highest share of AI-Related Job Postings Health, 2024

SOC	Detailed Occupation	2024 Share of AI-Related Job Postings
29-2035	Magnetic Resonance Imaging Technologists	8.5%
29-2032	Diagnostic Medical Sonographers	6.6%
29-2033	Nuclear Medicine Technologists	5.7%
29-2034	Radiologic Technologists and Technicians	3.7%
43-6013	Medical Secretaries and Administrative Assistants	3.5%

Implications for Education and Training:

- Use of **AI-integrated imaging and monitoring tools**
- Courses in **health informatics** and **digital workflows**
- Training on **ethics, patient consent**, and data privacy
- Instruction linking **clinical knowledge** with AI diagnostics

AI in Information & Communication Technologies (ICT) / Digital Media

- **Highest** among LARC sectors
- **15.4%** of postings referenced AI tools or skills

Sector Overview:

- ICT and Digital Media leads all LARC sectors in AI adoption
- Middle-skill roles support AI tools in **tech support, infrastructure, media workflows, and cybersecurity**

Key AI Applications:

- **Automated IT Support:** Diagnoses issues and recommends fixes
- **Network Monitoring:** Predicts failures and manages traffic
- **Cybersecurity:** Detects and responds to threats in real time
- **Media Workflows:** Automates tagging, personalization, and scheduling

Top 5 Occupations with the highest share of AI-Related Job Postings Information & Communication Technologies (ICT) / Digital Media, 2024

SOC	Detailed Occupation	2024 Share of AI-Related Job Postings
15-1241	Computer Network Architects	16.4%
15-1244	Network and Computer Systems Administrators	14.9%
15-1232	Computer User Support Specialists	7.7%
27-4032	Film and Video Editors	6.1%
15-1231	Computer Network Support Specialists	5.7%

Implications for Education and Training:

- Hands-on use of **AI-powered IT, media, and security platforms**
- Instruction in **Python** and **cloud-based machine learning tools**
- Courses combining **networking, automation, and data-driven decision tools**
- Emphasis on **responsible AI use, privacy, and transparency**

AI in Life Sciences & Biotechnology

- Ranked **2nd** among LARC sectors
- **5.1%** of postings referenced AI skills or tools

Sector Overview:

- AI is advancing **research, diagnostics, lab operations,** and **data analysis**
- Middle-skill workers support daily lab functions using AI-powered tools

Key AI Applications:

- **Drug Testing:** Simulates results and identifies promising compounds
- **Genomic Analysis:** Interprets sequences and detects disease markers
- **Lab Automation:** Uses AI systems for high-volume testing
- **Environmental Monitoring:** Tracks public health and safety data in real time

Top Occupations with the highest share of AI-Related Job Postings Life Sciences & Biotechnology, 2024

SOC	Detailed Occupation	2024 Share of AI-Related Job Postings
19-4099	Life, Physical, and Social Science Technicians, All Other	8.2%
49-9062	Medical Equipment Repairers	1.8%

Implications for Education and Training:

- Use of **lab-based data and analysis tools**
- Exposure to **bioinformatics and genomics software**
- Ethics training on **AI use in health and research**
- Cross-training in **biology, chemistry,** and computer skills for lab settings

AI in Retail, Hospitality, & Tourism

- **Lowest** among LARC sectors
- Just under **0.3%** of postings referenced AI tools or skills

Sector Overview:

- AI is gradually entering RHT through **customer engagement, operations, and service personalization**
- Use remains limited, but is growing in marketing, sales, inventory, and guest services

Key AI Applications:

- **Customer Engagement:** Personalized marketing, product suggestions, and chatbots
- **Sales & Inventory Forecasting:** AI tools optimize stock and predict demand
- **Virtual Experiences:** Try-on tools, room tours, and digital guest services
- **Workforce Optimization:** Smart scheduling, dynamic pricing, and service management

Top 5 Occupations with the highest share of AI-Related Job Postings Retail, Hospitality, & Tourism, 2024

SOC	Detailed Occupation	2024 Share of AI-Related Job Postings
11-9071	Gambling Managers	3.7%
51-6092	Fabric and Apparel Patternmakers	2.4%
41-3041	Travel Agents	1.1%
39-7018	Tour and Travel Guides	0.6%
41-1011	First-Line Supervisors of Retail Sales Workers	0.6%

Implications for Education and Training:

- Introduce **AI-enabled service and marketing tools**
- Teach **basic data skills** for tracking, analytics, and merchandising
- Expose students to **retail and hospitality tech platforms**
- Encourage discussion on **automation, privacy, and tech's impact on service roles**

AI Trends in Middle-Skill Occupations

Key Insights:

- AI is increasingly relevant to **middle-skill jobs**, roles that typically require education beyond high school but below a bachelor's degree
- AI adoption spans **healthcare, manufacturing, IT, life sciences, and creative fields**
- Expanding access to AI training at community colleges can **bridge equity and skills gaps**

AI Trends in Middle-Skill Roles

Top AI-Affected Middle-Skill Occupations in LARC Priority Sectors, 2024

SOC	Detailed Occupation	2024 Share of AI-Related Job Postings
15-1241	Computer Network Architects	16.4%
15-1244	Network and Computer Systems Administrators	14.9%
17-3024	Electro-Mechanical and Mechatronics Technologists and Technicians	8.8%
29-2035	Magnetic Resonance Imaging Technologists	8.5%
19-4099	Life, Physical, and Social Science Technicians, All Other	8.2%
15-1232	Computer User Support Specialists	7.7%
17-3028	Calibration Technologists and Technicians	7.4%
29-2032	Diagnostic Medical Sonographers	6.6%
17-3012	Electrical and Electronics Drafters	6.6%
27-4032	Film and Video Editors	6.1%

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AI Shift in Middle-Skill Roles:

- Operate **AI-supported tools** across sectors
- Interpret **dashboards, alerts, and AI-generated reports**
- Manage **hybrid equipment** with mechanical and digital systems
- Solve problems using both **software** and **human judgment**

Implications for Education and Training:

- Embed **applied AI learning** into career education programs
- Update curriculum to include **smart systems, automation, and digital interfaces**
- Partner with industry to align training with real-world job tasks
- Offer **short-term credentials** in areas like system support, AI imaging, or predictive maintenance

Goal: Equip students with the **technical and decision-making skills** needed to thrive in an AI-integrated workforce

AI Trends in Middle-Skill Roles

Top AI-Affected Middle-Skill Occupations in LARC Priority Sectors, 2024

SOC	Detailed Occupation	2024 AI-Related Job Postings
41-4012	Sales Representatives, Wholesale and Manufacturing, Except Technical and Scientific Products	337
15-1232	Computer User Support Specialists	241
15-1241	Computer Network Architects	218
11-1021	General and Operations Managers	201
15-1244	Network and Computer Systems Administrators	167
43-4051	Customer Service Representatives	129
43-6013	Medical Secretaries and Administrative Assistants	123
43-1011	First-Line Supervisors of Office and Administrative Support Workers	121
13-1028	Buyers and Purchasing Agents	97
29-2034	Radiologic Technologists and Technicians	85

Recommendations for Preparing the Middle-Skill AI Workforce

1. Integrate Applied AI into Career Education

- Embed hands-on AI training into sector-specific programs
- Examples by sector:
 - **Advanced Manufacturing:** Predictive maintenance, generative design
 - **Advanced Transportation & Logistics:** Route optimization, smart diagnostics
 - **Business & Entrepreneurship / Global Trade:** CRM, sales forecasting, risk tools
 - **Energy, Construction, & Utilities:** Smart grid, BIM, environmental monitoring
 - **Health:** AI-assisted diagnostics and monitoring
 - **ICT / Digital Media:** Machine learning basics, content automation
 - **Life Sciences & Biotechnology:** Lab automation, bioinformatics
 - **Retail, Hospitality, & Tourism:** AI-powered scheduling, marketing tools

Expand Credentials and Employer Partnerships

2. Create Short-Term Credentials

- Offer **stackable, job-focused certificates**
 - Examples: AI diagnostics for health, digital systems troubleshooting, business data tools
 - Designed for both **new learners** and **incumbent workers**

3. Align Training with Real-World AI Use

- Partner with employers to:
 - Identify in-demand AI tools
 - Co-develop course content
 - Provide internships and apprenticeships
 - Strengthen job placement pathways

Upskilling and Cross-Sector Skills

4. Support Incumbent Worker Upskilling

- Deliver **flexible learning** options:
 - Evening, weekend, and online classes
 - On-site training in partnership with employers
 - Tech transition and bridge programs

5. Emphasize Interdisciplinary Skills

- Prepare students for **hybrid roles** that blend:
 - Technical operation of AI tools
 - Data interpretation and troubleshooting
 - Communication and teamwork across roles
- Focus on **equity and access**
 - Embed AI skills into programs serving underrepresented groups
 - Bridge education gaps highlighted in Pew's findings

AI is reshaping middle-skill jobs across all industries, not just tech

Key Highlights:

- **10x growth** in AI-related job postings from **2015 to 2024**
- Middle-skill roles in **healthcare, IT, manufacturing, and logistics** now use AI tools
- **ICT/Digital Media** and **Life Sciences/Biotech** have the **highest AI adoption**
- All **eight LARC sectors** show signs of early or accelerating AI integration

Implication:

- To stay competitive, the region must expand **AI-focused training, short-term credentials, and employer-educator partnerships**

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Hosted by Mt. San Antonio College

Mt. San Antonio College's Artificial Intelligence for Business

Program Description:

- The Artificial Intelligence in Business program is designed to provide students with the knowledge and skills to obtain jobs in the areas of **data science, data analysis, data mining, text mining, business intelligence, machine learning, deep learning, natural language processing, and artificial intelligence research**. Students will learn how to make business decisions using different machine learning algorithms and deep learning prediction models as well as to how to use natural language processing to better understand customer intentions through sentiment analysis and by gathering market intelligence.

Award types offered:

- Associate of Science degree (A.S. degree) – 24 units
- Certificate of Achievement – 10.5 units



Santa Monica College's Applied Artificial Intelligence

Program Description:

- As the impact of artificial intelligence expands to many different fields, foundational skills and familiarity with artificial intelligence systems are skillsets that are in increasing demand in various industry sectors today. The Department Certificate in Artificial Intelligence is suited for students in any field interested in learning about the **applications of artificial intelligence** and the **ethical considerations** when adopting artificial intelligence technologies and generative artificial intelligence.

Award type offered:

- Certificate of Achievement – 16 or greater semester units

College	Program	TOP Code	Award Type
Cerritos	Applied Artificial Intelligence	0799.00 - Other Information Technology	Certificate
Long Beach City	Applied Artificial Intelligence	0706.00 - Computer Science (Transfer)	A.S.-Transfer
Long Beach City	AI Literacy: AI & Machine Learning Foundations	TBD	Certificate
Long Beach City	AI Literacy: Fundamentals of Generative AI	TBD	Certificate
Long Beach City	AI Professional	TBD	A.S. Degree & Certificate
Mt. San Antonio	Supply Chain Management*	0510.00 - Logistics and Materials Transportation	Certificate
Pasadena City	Artificial Intelligence & Machine Learning (AI/ML)	0799.00 - Other Information Technology	A.S.-Transfer & Certificate

*Mt. SAC's Supply Chain Management certificate program will incorporate essential hard skills such as cloud computing, data analytics, blockchain, and artificial intelligence.

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Courses Offered

College	Program	TOP Code
L.A. Pierce	Managing Windows with Azure	0702.00 - Computer Information Systems
L.A. Southwest	AZURE AI FUNDAMENTALS	0707.30 - Computer Systems Analysis
L.A. Southwest	AZURE DATA FUNDAMENTALS	0707.30 - Computer Systems Analysis
L.A. Southwest	MICROSOFT AZURE FUNDAMENTALS	0707.30 - Computer Systems Analysis
Long Beach City	Fundamentals of Generative AI	0702.10 - Software Applications
Long Beach City	Fundamentals of Generative AI	0702.10 - Software Applications
Mt. San Antonio	AI for the Workplace	4930.12 - Job Seeking/Changing Skills
Mt. San Antonio	Generative Artificial Intelligence, Large Language Models, & Natural Language Processing in Business	0799.00 - Other Information Technology
Santa Monica	Data Science on Azure	0707.00 - Computer Software Development
Santa Monica	Generative Artificial Intelligence Fundamentals	0707.00 - Computer Software Development
Santa Monica	Introduction to Creative Coding and Generative Art	1002.00 - Art
Santa Monica	Microsoft Azure Database Essentials	0707.20 - Database Design and Administration
Santa Monica	Microsoft Azure Essentials	0702.00 - Computer Information Systems
Santa Monica	Teaching in the Age of AI: Strategies for Educators	0860.00 - Educational Technology



FOR LABOR MARKET RESEARCH

LOS ANGELES

NVIDIA & California Community College collaboration

Description:

- This first-of-its-kind initiative, signed by Governor Gavin Newsom and NVIDIA founder & CEO Jensen Huang, aims to:
 - Train students, educators and workers
 - Support job creation and promote innovation
 - Use AI to solve challenges that can improve the lives of Californians

California Community Colleges Chancellor's Office: Generative AI and the Future of Learning

Description:

- Generative AI is called out in the [Vision 2030](#) as one of the three key strategic directions and more information is available on the [AI Professional Development and Learning Opportunities](#) web page. The California Community Colleges are committed to using AI to:
 - Support the teaching and learning process
 - Improve communication with students
 - Improve student engagement and retention
 - Improve operational and administrative efficiency
 - Advance equitable support, access and success



LARC AI Innovation Summit: Artificial Intelligence and the Future of Learning and Work

Description:

- Held in November 2024, this summit brought nearly 400 educational professionals, workforce leaders, and industry partners across the Los Angeles Region to address the intersection of artificial intelligence, education, and workforce preparedness through meaningful dialogue, networking, and actionable strategies.



Strong Workforce Program (SWP) Regional Project: AI Literacy & Innovation

Description:

- This project, led by Long Beach City College is designed to empower all students across the region to be AI literate and more productive. One of its primary aims is to offer more programs that teach students to become AI professionals and innovators. This project will include curriculum development, faculty professional development, exhibitions and workshops, as well as industry engagement.

AI Program and Course Development

- GenAI Program and Course development at the Los Angeles regional community colleges is currently underway and has increased rapidly over the last two years.

Regional & Statewide AI Initiatives

- Several initiatives are underway to support AI program and course development, as well as other AI-related priorities.

Sector-specific AI program development

- Los Angeles regional community colleges should develop more programs and courses focused on the application of GenAI through a priority industry-focused lens, like the Supply Chain Management program at Mt. San Antonio College. Other potential areas could include:
 - Biotechnology Lab Automation & GenAI-assisted Genomic Analysis
 - GenAI-assisted Predictive Maintenance in Advanced Manufacturing
 - Smart Electrical Grid Management with GenAI Platforms

CONTACT INFORMATION

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ROUNDTABLE DISCUSSION

- **Mute yourself throughout discussion**
- **Submit questions through the chat box**
- **15-20 minutes of discussion per topic**
- **Discussion will be followed by Q&A**

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Chief Information Officer
Port of Long Beach

Tekla Moquin

Skills to Jobs Lead
Amazon Web Services (AWS)

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FEEDBACK POLL AND NEXT STEPS

THANK YOU!

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