

Job	role	Mode	Type of mobility	ISCO-08	ISCO Skill Level	Job Family	Value Chain stage
Mobility Behavioral scientist	Analyzes how people interact with new mobility technologies and designing interventions to improve user experience, safety, and overall system efficiency	Cross-modal	passengers&freight	2634	4	HMI, UX & Human Factors Experts	Design & Development
Ethics expert/Transport philosophers	Ensure that the development and deployment of connected and automated mobility systems adhere to ethical principles, addressing societal, environmental, and regulatory challenges	Cross-modal	passengers&freight	2633	4	Ethics & Philosophy Experts	Policy & Regulation
Data Scientist	Analyzes data to improve vehicle algorithms and performance.	Cross-modal	passengers&freight	2511	4	Data Science & Analytics experts	Design & Development
Mobility Innovation expert	Focuses on innovating mobility solutions, enhancing vehicle technology, and advancing digital systems for transportation, addressing autonomous vehicle research and smart infrastructure and sustainable transport strategies.	Cross-modal	passengers&freight	2149	4	Engineers	Design & Development
Autonomous Systems expert	Develops algorithms for perception, decision-making, and control in self-driving vehicles.	Cross-modal	passengers&freight	2149	4	Engineers	Design & Development
Human Factors & HMI Researcher	Studies driver/passenger interaction with automated systems.	Cross-modal	passengers	2634	4	HMI, UX & Human Factors Experts	Design & Development
Automotive Engineer	Designs and develops vehicle systems and components.	Road	passengers&freight	2144	4	Engineers	Design & Development

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Automated Vehicle Assembly Technicians	Assemble vehicles with integrated sensors, AI systems, and connectivity modules.	Road	passengers&freight	3114	3	Manufacturing & Assembly Technicians	Manufacturing & Assembly
Battery and Powertrain Engineers	Design and manufacture electric drivetrains and energy storage systems.	Road	passengers&freight	2144	4	Engineers	Design & Development
Sensor and LiDAR Technicians	Install and calibrate perception systems for autonomous driving	Road	passengers&freight	3114	3	Manufacturing & Assembly Technicians	Manufacturing & Assembly
Software Integration Engineers	Embed and test vehicle control software and V2X (vehicle-to-everything) communication systems. They integrate software components like sensors, cloud platforms, and embedded systems.	Road	passengers&freight	2144	4	Engineers	Design & Development
Rail Automation Engineers	Develop and implement autonomous train control systems.	Rail	passengers&freight	2144	4	Engineers	Design & Development
Smart Infrastructure Technicians	Manufacture and maintain trackside sensors and communication systems.	Rail	passengers&freight	3114	3	Manufacturing & Assembly Technicians	Manufacturing & Assembly
Rail Vehicle Design engineer	Design train units with CCAM-compatible features like predictive maintenance and real-time data exchange.	Rail	passengers&freight	2144	4	Engineers	Design & Development
UAV Assembly Technicians	Build and test autonomous drones and air taxis.	Air	passengers&freight	3114	3	Manufacturing & Assembly Technicians	Manufacturing & Assembly

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Remote Operations Specialists	Monitors, manages, and optimizes remote operations to ensure efficient and effective performance of CCAM systems.	Maritime	passengers&freight	2152	4	Remote Operations	Mobility Services & Logistics
Human-Machine Interface (HMI) Designers	Create intuitive interfaces for operators and passengers. Designing accessible user interfaces for CCAM systems Ensuring digital platforms are usable by people with disabilities	Cross-modal	passengers&freight	2166	4	HMI, UX & Human Factors Experts	Design & Development
Software engineers	Create and maintain software for vehicle automation.	Cross-modal	passengers&freight	2512	4	Software & Systems Development	Design & Development
Backend software engineer	Data storage services, design of APIs for proper communication between the sensors, between the vehicle and the infrastructure or between the sensors and the server/platform/cloud	Cross-modal	passengers&freight	2512	4	Software & Systems Development	Design & Development
Robotics and automation Engineer	Develops robotic systems for automated vehicles.	Cross-modal	passengers&freight	2152	4	Engineers	Design & Development
AI Specialist	Implements artificial intelligence for vehicle decision-making	Cross-modal	passengers&freight	2511	4	Data Science & Analytics experts	Design & Development
5G/6G Network Engineer	Designs, deploys, and optimizes ultra-reliable, low-latency mobile networks to enable seamless V2X communication for connected and automated vehicles. Ensures network performance supports real-time data exchange,	Cross-modal	passengers&freight	2152	4	Engineers	Design & Development

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	edge computing, and safety-critical applications in dynamic mobility ecosystems						
Telecommunication Systems and Protocols Manager	Manages communication protocols and systems.	Cross-modal	passengers&freight	2153	4	Engineers	Design & Development
Urban Planner	Designs infrastructure to support automated mobility.	Cross-modal	passengers&freight	2164	4	Urban Planning & Digital Infrastructure	Infrastructure Deployment & Operations
IoT developers (engineer)	Develops Internet of Things solutions for vehicle connectivity	Cross-modal	passengers&freight	2152	4	Engineers	Design & Development
Traffic Managers	coordinating real-time mobility flows, integrating connected vehicle data, and ensuring safe, efficient, and interoperable transport systems in increasingly automated environments.	Cross-modal	passengers&freight	4323	2	Traffic Control & Signalling	Mobility Services & Logistics
Smart Infrastructure Technicians	Maintain trackside sensors and communication systems.	Cross-modal	passengers&freight	3114	2	Maintenance & Repair Operators	Infrastructure Deployment & Operations
App developer	Designs, builds, and maintains mobile or web applications that enable seamless communication, data exchange, and user interaction between connected vehicles, infrastructure, and mobility services.	Cross-modal	passengers&freight	2519	4	Software & Systems Development	Design & Development
Construction workers	Upgrading and maintaining roads and highways, warehouses and hubs	Cross-modal	passengers&freight	9313	1	Construction workers	Infrastructure Deployment & Operations
Safety Engineer	Ensures vehicles meet safety standards.	Cross-modal	passengers&freight	2144	4	Engineers	Design & Development

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Regulatory Compliance Specialist	Ensures that companies developing and deploying CCAM technologies comply with local, national, and international regulations Navigates and comply with regulations.	Cross-modal	passengers&freight	2619	4	Legal & Regulatory professionals	Policy & Regulation
Cybersecurity Experts	Protects vehicle systems and related infrastructure from cyber threats.	Cross-modal	passengers&freight	2519	4	Cybersecurity & IT Protection Technician	Design & Development
Cybersecurity Analysts	Work remotely to protect CCAM systems from cyber threats, ensuring data integrity and system resilience.	Cross-modal	passengers&freight	351	4	Cybersecurity & IT Protection Technician	Design & Development
Insurance specialist	Adapts traditional insurance practices to the CCAM landscape	Cross-modal	passengers&freight	2412	3	Insurance & Risk Assessment Professionals	Policy & Regulation
Data Privacy Lawyer	Specializes in the legal aspects of data collection, storage, and sharing for connected vehicles, ensuring compliance with privacy laws and regulations	Cross-modal	passengers&freight	2619	4	Legal & Regulatory professionals	Policy & Regulation
Cybersecurity Legal Advisor	Focuses on the legal implications of cybersecurity threats to connected and automated vehicles, advising on risk management and compliance	Cross-modal	passengers&freight	2619	4	Legal & Regulatory professionals	Policy & Regulation
Law specialists	Formulate and establish suitable regulations and legal framework for the operation of autonomous vehicles and managing issues related to the future vehicles as well as solve liability issues in case of failure or incident	Cross-modal	passengers&freight	2619	4	Legal & Regulatory professionals	Policy & Regulation

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Liability Risk Assessor	Specializes in assessing legal responsibility in incidents involving autonomous systems.	Cross-modal	passengers&freight	2619	4	Insurance & Risk Assessment Professionals	Policy & Regulation
Policy Administration Professional	designing, evaluating, and implementing public policies (CCAM related)	Cross-modal	passengers&freight	2422	4	Policy Makers	Policy & Regulation
Remote Vehicle Operations Technician	Technical operation and remote control of autonomous vehicles within the CCAM ecosystem. The technician ensures safe and efficient vehicle behavior in complex or unexpected scenarios by using advanced control systems and diagnostics tools.	Cross-modal	passengers&freight	3154	3	Remote Operations	Mobility Services & Logistics
Logistics Coordinators	Manage the logistics of automated mobility services (supervision)	Cross-modal	freight	1324	4	Logistics Managers	Mobility Services & Logistics
Urban Logistics Manager	Responsible for goods mobility management in urban areas; coordination between shippers, logistics service providers and retailers.	Cross-modal	freight	1324	4	Logistics Managers	Mobility Services & Logistics
Global freight forwarder/manager	Coordinates and manage the logistics of automated and connected vehicle shipments, ensuring compliance with international regulations and optimizing the efficiency of transportation networks	Cross-modal	freight	1324	4	Logistics Managers	Mobility Services & Logistics

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Remote harbour operators	Managing and overseeing the operations of automated and connected vehicles within ports and harbours. This includes tasks such as remote monitoring, assistance, and control of these vehicles to ensure efficient and safe operations	Maritime	passengers&freight	3154	3	Remote Operations	Mobility Services & Logistics
Dockworkers and logistics platforms workers	Supervising, and coordinating automated loading/unloading systems, ensuring safe interaction between autonomous freight vehicles, smart port infrastructure, and digital logistics platforms	Cross-modal	freight	9333	1	Freight, Warehouse & Port Workers	Mobility Services & Logistics
Autonomous Mobility on Demand (AMoD) services modelers and programmers	Design and implement intelligent transportation solutions using autonomous vehicles. They develop algorithms for fleet optimization, ride-sharing efficiency, and real-time traffic adaptation.	Cross-modal	passengers&freight	2511	4	Data Science & Analytics experts	Design & Development
Web and Multimedia Developers	Develop real-time traffic visualization and user interfaces	Cross-modal	passengers&freight	2513	4	Software & Systems Development	Design & Development
Drivers (truck, bus, taxi). Role will evolve with automation levels	Drivers (truck, bus, taxi). Role will evolve with automation levels	Road	passengers&freight	83	2	Drivers	Mobility Services & Logistics
Drivers (rail, metro). Role will evolve with automation levels	Drivers (rail, metro). Role will evolve with automation levels	Rail	passengers&freight	83	2	Drivers	Mobility Services & Logistics

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Signallers	Operates signals and points manually or semi-automatically. Low of mixed automation. Similar to rail traffic controller but less automated	Rail	passengers&freight	4323	2	Traffic Control & Signalling	Mobility Services & Logistics
Mobility-as-a-Service (MaaS) Platform Manager	Oversees integration of various transport services into a unified digital platform.	Cross-modal	passengers	1323	4	Mobility & Services Platform Managers	Mobility Services & Logistics
Rail Traffic Controller	Control of automated movements of engines and train, Operations along rail lines. Through centralized digital control systems. More automated	Rail	passengers&freight	4323	2	Traffic Control & Signalling	Mobility Services & Logistics
Last Mile Delivery coordinators	Ensure the efficient operation of automated delivery systems, manage delivery schedules, track progress, and address any issues that arise during the final stage of delivery	Cross-modal	freight	4323	2	Traffic Control & Signalling	Mobility Services & Logistics
Mobility Data Analysts	Analyze real-time traffic, vehicle, and user data to optimize routes, improve safety, and enhance service delivery.	Road	passengers&freight	2511	4	Data Science & Analytics experts	Design & Development
Mobility Consultant	Advises public and private stakeholders on the planning, implementation, and optimization of connected, cooperative, and automated mobility solutions to ensure efficiency, accessibility, and sustainability.They ensure seamless integration of connected and automated mobility services to improve efficiency, user experience, and environmental impact.	Cross-modal	passengers&freight	2421	4	Urban Planning & Digital Infrastructure	Mobility Services & Logistics

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Autonomous Delivery Handlers	Assist in loading/unloading goods from automated delivery vehicles or drones.	Cross-modal	freight	9333	1	Freight, Warehouse & Port Workers	Mobility Services & Logistics
Last-Mile Delivery supervisor	Oversee the final leg of delivery, ensuring packages are received and systems function properly.	Road	freight	4321	2	Freight, Warehouse & Port Workers	Mobility Services & Logistics
Warehouse Assistants for Smart Hubs	Support automated sorting and dispatch systems in urban logistics centers.	Cross-modal	freight	9333	1	Freight, Warehouse & Port Workers	Mobility Services & Logistics
Vehicle sales representatives	Responsible for selling vehicles to individual customers or fleet buyers (B2C/B2B)	Cross-modal	passengers&freight	5249	2	Sales Workers	Market & Commercial Development
Electric Car Battery Support Agent	Support services for electric car batteries, helping customers and dealers with questions, contracts, and billing. It works closely with a major car brand but focuses on managing battery use rather than manufacturing them.	Road	passengers&freight	4321	2	Remote Mobility Support	Mobility Services & Logistics
Business Development Manager	Responsible for identifying growth opportunities, building strategic partnerships, and driving revenue within the CCAM industry.	Cross-modal	passengers&freight	2421	4	Sales & Marketing specialists	Market & Commercial Development
Marketing Specialist	Develops marketing strategies for automated mobility.	Cross-modal	passengers&freight	2431	4	Sales & Marketing Specialists	Market & Commercial Development
Driving instructors	Teach drivers how to interact with automated systems, including when and how to take control from the system.	Cross-modal	passengers&freight	5165	2	Trainers	Training & Education
Simulator Instructor for AVs	Trains drivers and operators using high-fidelity simulators for AV systems	Cross-modal	passengers&freight	5165	2	Trainers	Training & Education

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Educational Program Developers	Create curricula for automated mobility education.	Cross-modal	passengers&freight	2351	4	Educational Program Developers	Training & Education
Public Relations Specialist	Educate the public about automated mobility benefits.	Cross-modal	passengers&freight	2432	4	Sales & Marketing Specialists	Market & Commercial Development
Infrastructure Maintenance Technician	Performs maintenance on infrastructure.	Cross-modal	passengers&freight	3119	3	Maintenance & Repair Operators	Infrastructure Deployment & Operations
Predictive Maintenance Analyst	Uses sensor data and AI to anticipate and prevent failures in AV systems.	Cross-modal	passengers&freight	2511	4	Maintenance & Repair Operators	Infrastructure Deployment & Operations
Mechanic	Maintains, diagnoses, and repairs connected and automated vehicles, ensuring the proper functioning of advanced systems such as sensors, electric drivetrains, and vehicle-to-everything (V2X) communication components.	Cross-modal	passengers&freight	7231	2	Maintenance & Repair Operators	Infrastructure Deployment & Operations
e-charge maintenance	Charging infra needs constant attention, cleaning, digital upgrading etc.	Cross-modal	passengers&freight	2514	4	Maintenance & Repair Operators	Infrastructure Deployment & Operations
Digital Infrastructure Monitor	This function is clearly emerging as a necessary part of CCAM ecosystems, especially in roles related to real-time data monitoring, infrastructure diagnostics, and system coordination	Cross-modal	passengers&freight	2142	4	Urban Planning & Digital Infrastructure	Infrastructure Deployment & Operations
Remote Customer Support Agents	Assist users of automated mobility services via chat, video, or voice, helping with onboarding, troubleshooting, and emergencies.	Cross-modal	passengers&freight	4222	2	Remote Mobility Support	Mobility Services & Logistics

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Charging Station Attendants	Responsible for cleaning, inspecting, and reporting issues at EV charging stations.	Cross-modal	passengers&freight	5249	2	Sales Workers	Market & Commercial Development
Sensor Maintenance Assistants	Help with the upkeep of roadside units, cameras, and V2X communication devices.	Cross-modal	passengers&freight	7231	2	Maintenance & Repair Operators	Infrastructure Deployment & Operations
Public Transport Surveillance Operator	Staff taking care of security in public transport spaces/ Watcher of video streams. Additionally detection of abnormal system operation	Cross-modal	passengers	5414	2	Surveillance Operators	Mobility Services & Logistics
Recycling Specialist	Manages the recycling of materials from decommissioned vehicles and infrastructure	Cross-modal	passengers&freight	3119	4	Decommissioning & Recycling Technicians	Recycling & Circular Economy
Disassembly Technician	Performs the physical disassembly of vehicle components and infrastructure	Cross-modal	passengers&freight	9612	2	Decommissioning & Recycling Technicians	Recycling & Circular Economy
Battery Lifecycle Manager	Oversees reuse, recycling, and disposal of EV batteries in compliance with environmental standards.	Cross-modal	passengers&freight	2149	4	Decommissioning & Recycling Technicians	Recycling & Circular Economy
Battery Sorting Workers	Support the recycling process of EV batteries under supervision.	Cross-modal	passengers&freight	8183	2	Recycling & Waste Management Operators	Recycling & Circular Economy
Travel attendants/ assistants, Global travel assistant, Passenger service (“comfortable”) managers	Customer engagement and safety issues, Assistance of elderly and disabled during travel, Assistance to passengers pre-, during and post-travel, More focus on the needs of the customer (traveller).	Cross-modal	passengers	5111	1	On-Site Mobility Assistance Roles	Mobility Services & Logistics

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Customer Support Agent	Assists customers with inquiries and issues related to autonomous vehicle services.	Cross-modal	passengers&freight	4111	2	Remote Mobility Support	Mobility Services & Logistics
Accessibility and Inclusion Specialist	Ensures CCAM services are designed for vulnerable groups. Design physical environments (e.g., transport hubs, vehicle interiors, public spaces) Ensure universal design principles are applied Integrate accessibility features like ramps, tactile paths, boarding aids, and space for mobility devices Collaborate with engineers and urban planners to make infrastructure inclusive	Cross-modal	passengers	2166	4	HMI, UX & Human Factors Experts	Design & Development
Smart mobility assistant	Provides personalized travel assistance in multimodal hubs or on-demand services.	Cross-modal	passengers&freight	4222	2	On-Site Mobility Assistance Roles	Mobility Services & Logistics
Car rental agent	Facilitates the onboarding and support of customers using connected and automated rental vehicles	Road	passengers&freight	5249	2	On-Site Mobility Assistance Roles	Mobility Services & Logistics
CCAM Operations Trainer	Trains personnel to operate, monitor, and interact with connected and automated mobility systems, including remote support platforms, logistics automation tools, and teleoperation interfaces.	Cross-modal	passengers&freight	4323	2	Trainers	Training and education

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Emergency Response Coordinator	Integrate CCAM systems with fire, ambulance, and police operations.	Cross-modal	passengers&freight	1349	3	Emergency & Incident Management	Infrastructure Deployment & Operations
Community Engagement Officer	Facilitate dialogue with citizens during CCAM testing and deployment phases.	Cross-modal	passengers&freight	2432	4	Policy Makers	Policy & Regulation
Transport Economist / Cost-Benefit Analyst	Assess socio-economic impacts of CCAM for policymaking and infrastructure investment.	Cross-modal	passengers&freight	2631	4	Socioeconomic & Impact Analysts	Policy & Regulation
CCAM Social Impact Analysts	Analyse social impacts of CCAM (accessibility, gender, equity, inclusion, employment).	Cross-modal	passengers&freight	2635	4	Socioeconomic & Impact Analysts	Policy & Regulation
Occupational Safety and Health (OSH) expert	Ensure that new mobility technologies are implemented safely for workers and users. They assess risks, develop safety protocols, and support compliance in evolving transport environments.	Cross-modal	passengers&freight	2263	4	Health, Safety & Ergonomics	Policy & Regulation
Union Representative	Advocate for fair labor practices in environments managed by algorithms, ensuring certified staff are protected and systemic failures are properly investigated	Cross-modal	passengers&freight	2422	4	Policy Makers	Policy & Regulation
Remote HR Specialist	Manages recruitment, onboarding, and well-being of remote operators, including ergonomic and mental health support.	Cross-modal	passengers&freight	2423	4	Human Resources & Organizational Development	Mobility Services & Logistics
Traffic Law/Traffic Violation Officers	Monitor and enforce compliance with traffic regulations in increasingly automated and digitally managed mobility environments.	road	passengers&freight	5412	3	Surveillance Operators	Policy & Regulation

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Parking enforcement officer	Oversee parking compliance using smart surveillance and digital ticketing systems integrated with CCAM infrastructure.	road	passengers&freight	5414	2	Surveillance Operators	Policy & Regulation
Valet operator	Assist with vehicle parking and retrieval in CCAM-enabled environments, potentially coordinating with autonomous vehicle systems.	Road	Passengers	5249	1	On-Site Mobility Assistance Roles	Mobility Services & Logistics
Ticket issuer	Manage digital and physical ticketing processes for transport access, transitioning toward automated and app-based systems.	Road	Passengers	4221	2	Remote Mobility Support	Mobility Services & Logistics
Toll collectors	Operate and supervise toll systems that are increasingly automated and integrated with CCAM platforms for seamless mobility payments.	Road	passengers&freight	4211	2	Remote Mobility Support	Mobility Services & Logistics
Additive Manufacturing Design Engineer	Designs CCAM components specifically for 3D printing, including sensor mounts, brackets, housing, etc.	Cross-modal	passengers&freight	2144	4	Engineers	Design & Development
Additive Manufacturing Process Technician	Operates and calibrates 3D printers for metal/polymer components in CCAM hardware	Cross-modal	passengers&freight	3115	3	Manufacturing & Assembly Technicians	Manufacturing & Assembly
AM-Enabled Maintenance Technician	Produces spare parts on-demand via AM for predictive maintenance in CCAM vehicles or hubs	Cross-modal	passengers&freight	7231	3	Maintenance & Repair Operators	Infrastructure Deployment
Simulation-based AM Developer	Integrates AM with simulation workflows to optimize CCAM components	Cross-modal	passengers&freight	2511	4	Software & Systems Development	Design & Development

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Recycled Material Filament Technician	Develops and handles 3D printing feedstock from recycled EV/AV materials (e.g., plastics, batteries)	Cross-modal	passengers&freight	3119	3	Decommissioning & Recycling Technicians	Recycling & Circular Economy
AM Training Specialist (Mobility Sector)	Provides vocational training on AM machines and digital fabrication specific to CCAM supply chains	Cross-modal	passengers&freight	5165	3	Trainers	Training & Education
Mobility Service Designer	Conceptualizes user-centric mobility services.	Cross-modal	passengers	2421	4	Service & Business Design	Design & Development
Remote Mobility Support Specialist	Provides personalized remote assistance for multimodal journeys and coordination across transport modes.	Cross-modal	passengers	4222 / 4323	2	Remote Mobility Support Roles	Mobility Services & Logistics
Door-to-Door Mobility Assistant	Assists vulnerable users (e.g., elderly, disabled) from home to vehicle and to destination reception.	Cross-modal	passengers	5111 / 5249	1	On-Site Mobility Assistance Roles	Mobility Services & Logistics
Business Developer / Service Designer	Creates business models, plans mobility hubs, and designs integrated mobility services.	Cross-modal	passengers&freight	2431 / 2432	2	Sales & Marketing Specialists	Market & Commercial Development