

CAREERS

IN TECHNOLOGY

MEDICAL ROBOTICS ENGINEER

WHAT THEY DO

Design and build robots that help doctors in surgeries or look after patients.

THE TECH

- Surgical robots
- Robotic arms
- Artificial Intelligence (AI)
- 3D printing



CAREERS

IN TECHNOLOGY

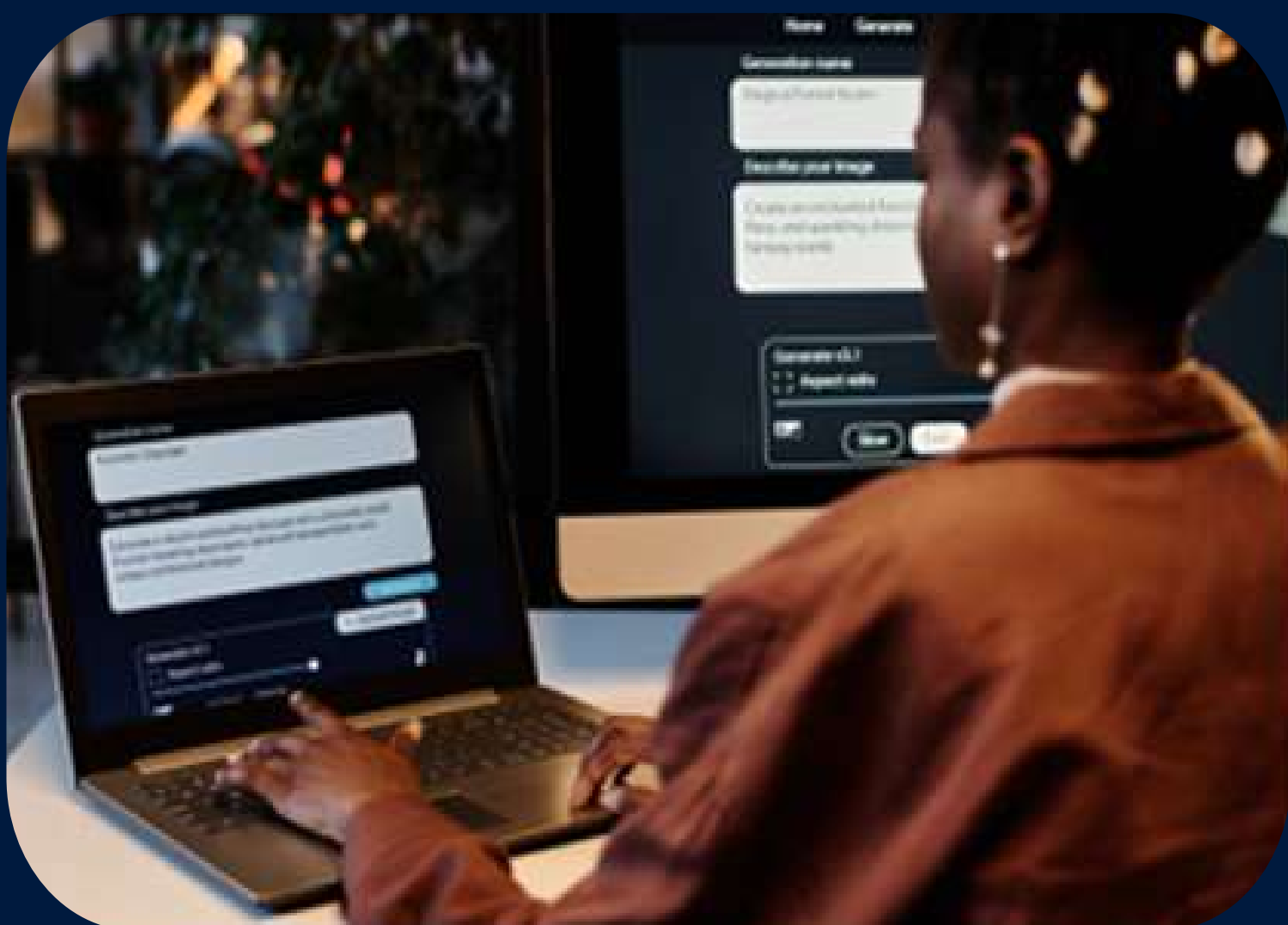
MEDICAL IMAGING DATA SCIENTIST

WHAT THEY DO

Use AI tools to train computers to spot illnesses or injuries in medical scans more quickly and accurately.

THE TECH

- Artificial intelligence (AI)
- Medical imaging equipment
- Data analysis software



CAREERS

IN TECHNOLOGY

HEALTH APP DEVELOPER

WHAT THEY DO

Create health tracking apps to monitor and analyse health data.

THE TECH

- Coding
- Artificial intelligence (AI)
- Cloud storage (storing information online)
- Design software



CAREERS

IN TECHNOLOGY

WEARABLE TECH DESIGNER



WHAT THEY DO

Create wearable devices like smart watches or fitness bands that track health data.

THE TECH

- Biosensors
- Tiny computers (like Raspberry Pi)
- Coding
- Design software

CAREERS

IN TECHNOLOGY

BIOMECHANIST

WHAT THEY DO

Analyse data about body movement to help athletes improve performance.

THE TECH

- 3D Motion Capture
- Sensors
- Data analysis software



CAREERS

IN TECHNOLOGY

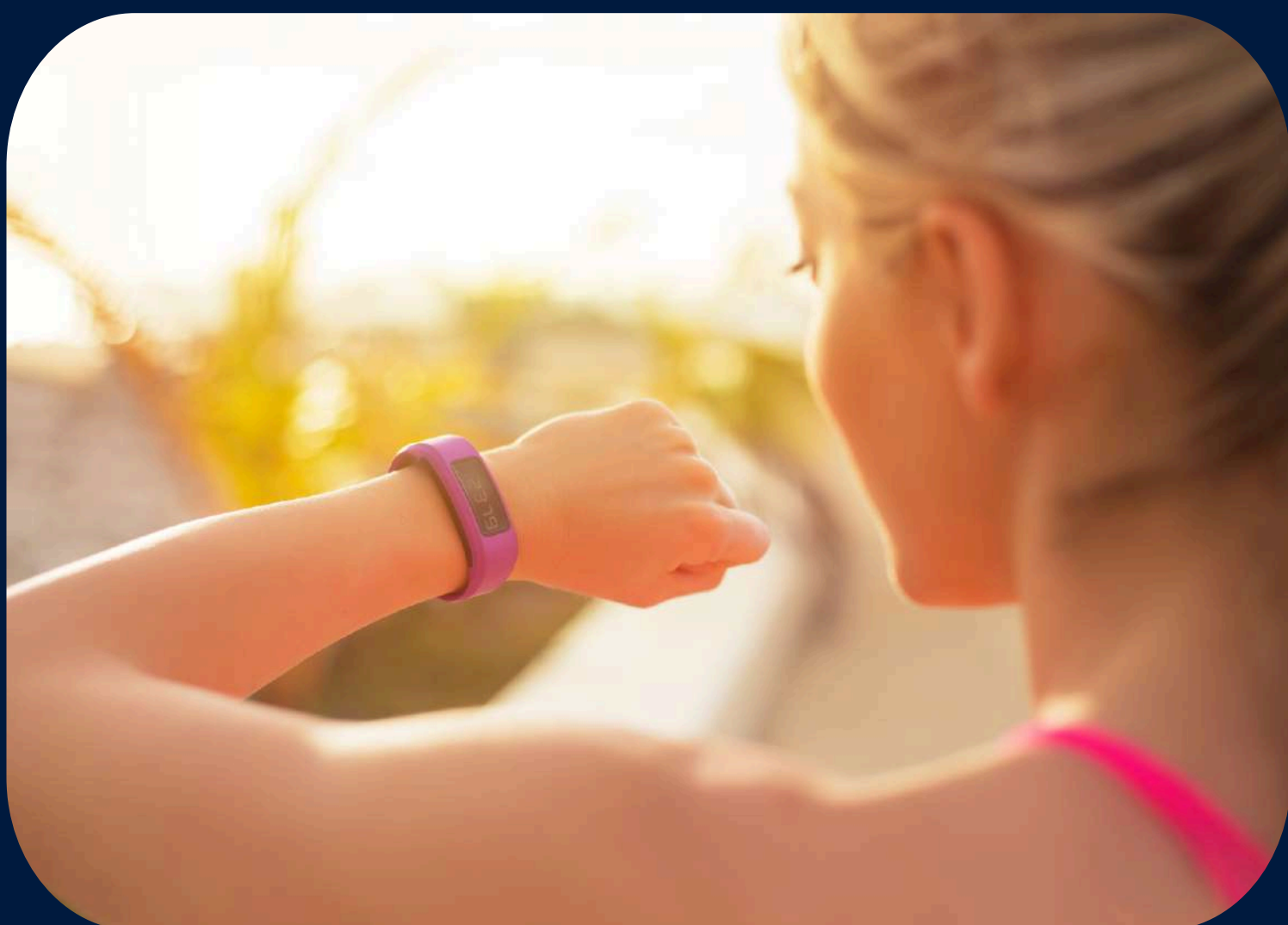
SPORTS ENGINEER

WHAT THEY DO

Solve problems in sports by designing, creating, and testing new equipment, clothing, or technology to help athletes perform better and stay safe.

THE TECH

- 3D printing
- 3D modelling tools
- Sensors
- Motion capture technology



CAREERS

IN TECHNOLOGY

SOCIAL SUSTAINABILITY MANAGER

WHAT THEY DO

Make sure people are treated fairly at work and in communities. Promote diversity, equity and inclusion.

THE TECH

- Data analysis and visualisation software
- Planning tools



CAREERS

IN TECHNOLOGY

CONSERVATION TECHNOLOGIST

WHAT THEY DO

Use drones and cameras to help protect nature, watch over animals and forests, and make sure everything stays healthy.

THE TECH

- Drones
- GPS & mapping tools
- Data analysis tools
- Cameras and sensors



CAREERS

IN TECHNOLOGY

CLIMATE DATA ANALYST

WHAT THEY DO

Collect and study data about the Earth's weather and climate to help scientists and governments make greener decisions.

THE TECH

- Satellite data
- GIS software (maps that show information)
- Data visualisation (making charts and graphs)
- Super computers



CAREERS

IN TECHNOLOGY

SUSTAINABLE PACKAGING TECHNOLOGIST

WHAT THEY DO

Create new products that use eco-friendly materials, like paper bottles or seaweed packaging which can be reused, recycled or composted.

THE TECH

- 3D printing
- Design software
- AI design tools
- Smart labels (like QR codes)



CAREERS

IN TECHNOLOGY

ELECTRIC VEHICLE ENGINEER

WHAT THEY DO

Design electric motors and batteries to make electric cars efficient, safe, and fast. Works on charging systems and power management.

THE TECH

- CAD software
- Battery management software
- Microcontrollers
- Testing tools



CAREERS

IN TECHNOLOGY

RENEWABLE ENERGY ENGINEER

WHAT THEY DO

Designs clean energy systems making sure energy is produced and used effectively. Researches new solutions to produce and store renewable energy.

THE TECH

- CAD tools
- Solar / Wind / Battery technology
- Sensors and IoT devices
- Data analysis tools



CAREERS

IN TECHNOLOGY

HUMANITARIAN TECHNOLOGY DEVELOPER

WHAT THEY DO

Design tech to help people in emergencies or in places with limited resources. Design things to help people have clean water, food, light, heat, medicine or other essentials.

THE TECH

- Computer programming tools
- Data tools
- Maps and GPS
- Communication systems



CAREERS

IN TECHNOLOGY

ENVIRONMENTAL ENGINEER

WHAT THEY DO

Work to protect people and the planet by solving environmental problems and designing systems using science and engineering.

THE TECH

- CAD software
- Data analysis tools
- Sensors and monitors
- Modelling and simulation tools



CAREERS

IN TECHNOLOGY

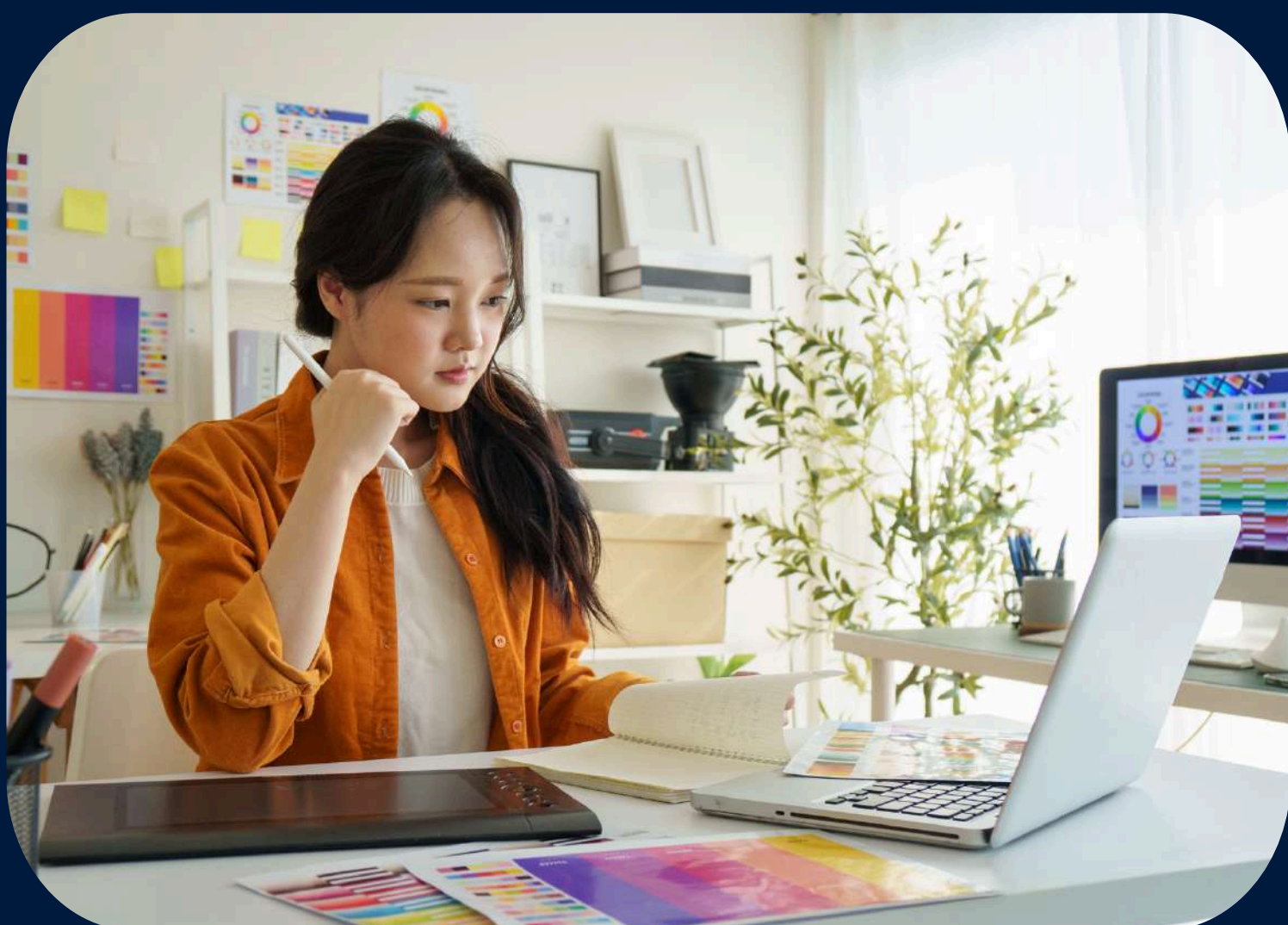
PRODUCT DESIGNER

WHAT THEY DO

Think of problems people have and design products to fix them, or come up with new products to make like gadgets or clothes.

THE TECH

- Graphic design software
- VR (Virtual Reality)
- AR (Augmented Reality)
- 3D modelling software
- 3D printers



CAREERS

IN TECHNOLOGY

AR BEAUTY APP DEVELOPER

WHAT THEY DO

Build apps that use Augmented Reality to let users try on make-up or hair styles virtually. Use AI for image analysis to make suggestions for products or styles.

THE TECH

- AR (Augmented Reality)
- Mobile app development tools
- Artificial Intelligence (AI)
- Coding



CAREERS

IN TECHNOLOGY

EDUCATIONAL SOFTWARE DEVELOPER

WHAT THEY DO

Design and create the apps, online games and software used by students in schools and at home to help them to learn.

THE TECH

- Coding
- Programming languages
- Design software
- AR (Augmented Reality)
- VR (Virtual Reality)



CAREERS

IN TECHNOLOGY

GRAPHIC DESIGNER

WHAT THEY DO

Designs websites, apps, posters and other visual media. Considers branding, font, colours and images, alongside making sure the layout is effective.

THE TECH

- Design software
- Graphics and image software
- Tech drawing tools



CAREERS

IN TECHNOLOGY

UX/UI DESIGNER

WHAT THEY DO

Think about how people interact with websites and apps. Make sure they look good and are easy to use.

THE TECH

- Design software
- Graphics and image software
- Coding programmes
- Data analysis tools



CAREERS

IN TECHNOLOGY

SOCIAL MEDIA MANAGER

WHAT THEY DO

Helps organisations to use social media to promote themselves and connect positively with customers and the public. Creates posts, images and videos.

THE TECH

- Social media apps
- Design software
- AI design tools



CAREERS

IN TECHNOLOGY

AI ARTIST

WHAT THEY DO

Use AI technology to develop and create artwork to be used for things like posters, adverts and on social media.

THE TECH

- AI image tools
- Text prompts
- Creative editing software



CAREERS

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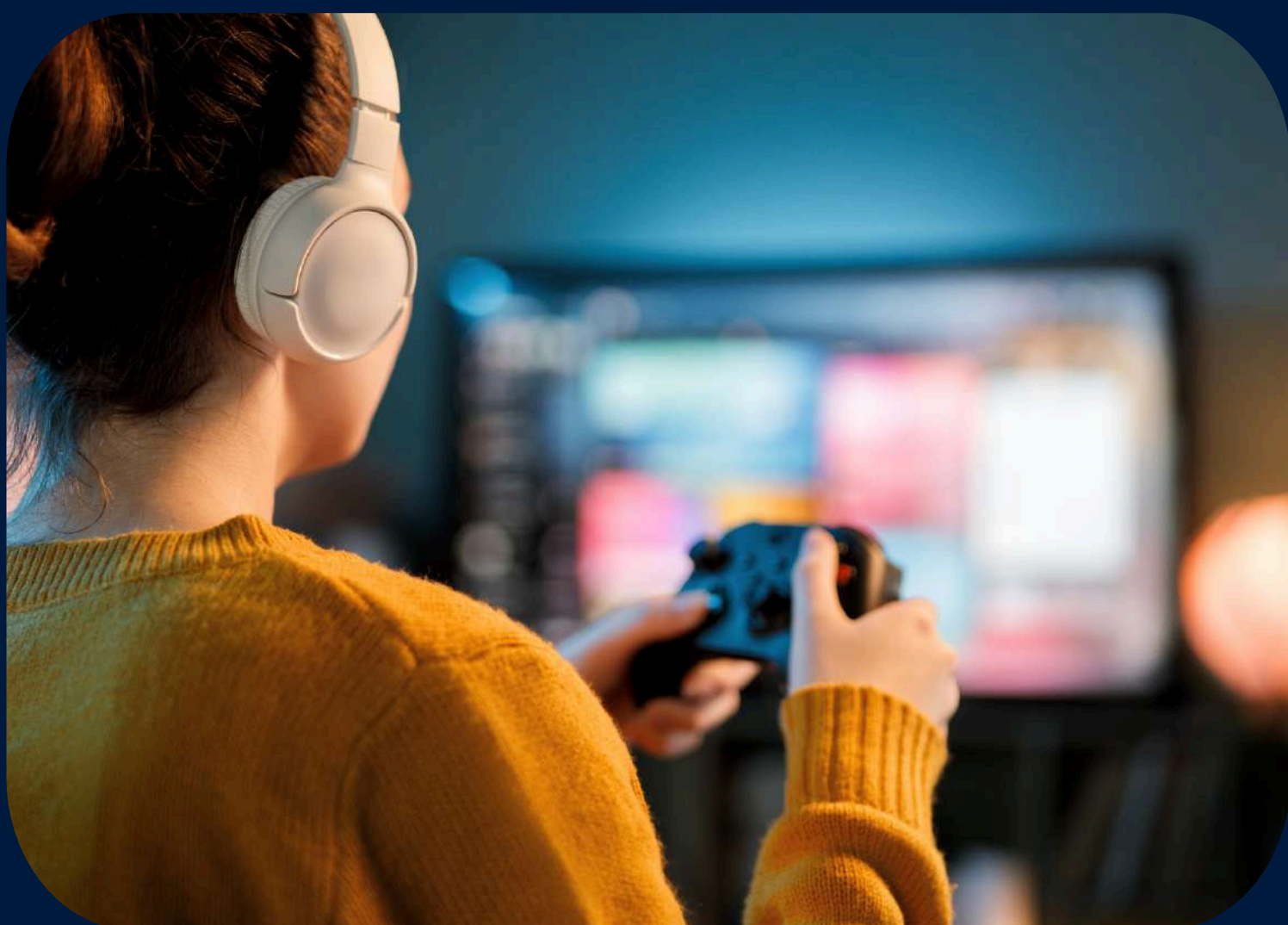
VIDEO GAME DESIGNER

WHAT THEY DO

Design and create video games, thinking about things like the story, characters, settings, levels and rules.

THE TECH

- Graphic design tools
- Coding tools
- Programming languages
- AR (Augmented Reality)
- VR (Virtual Reality)



CAREERS

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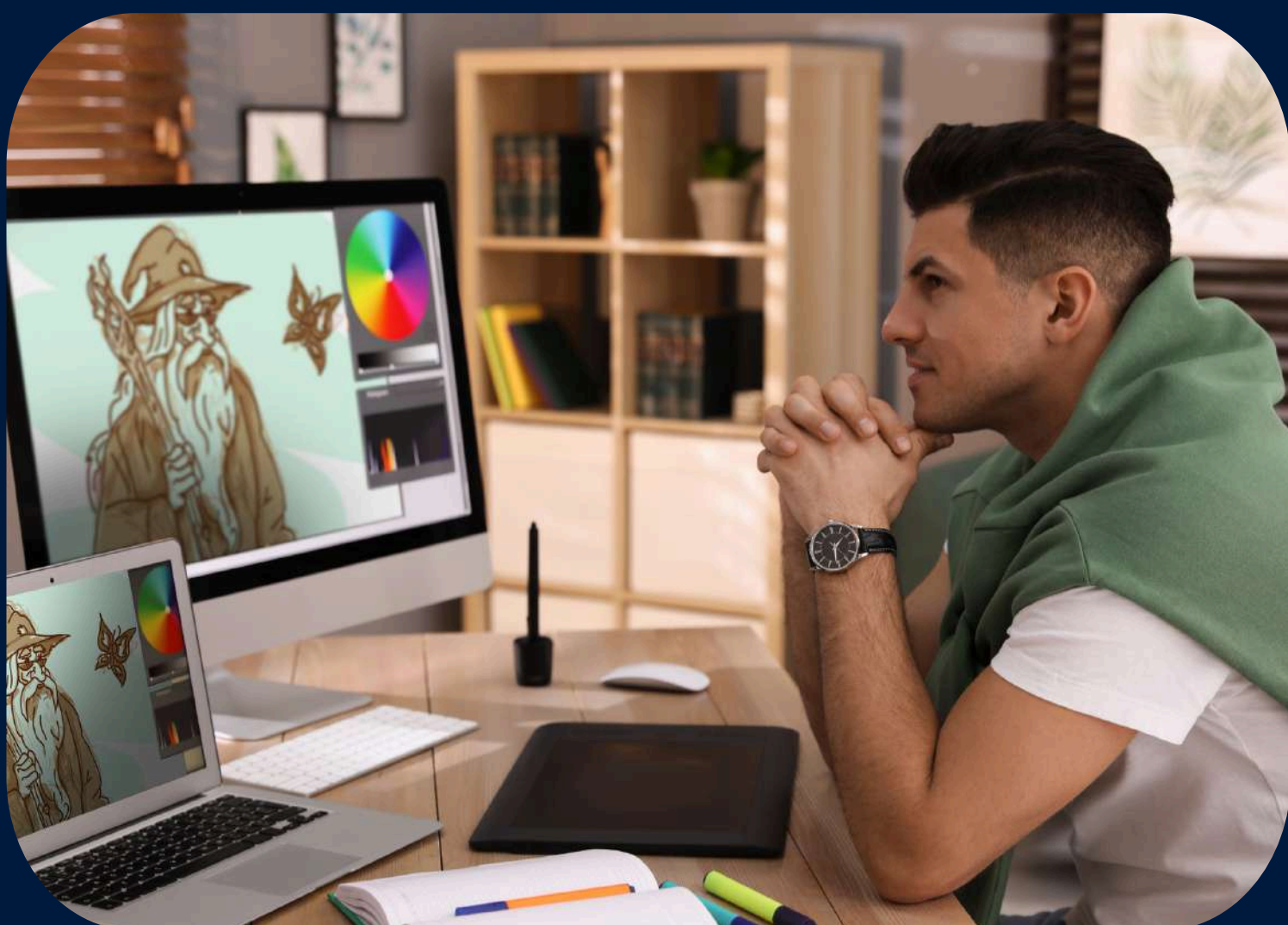
ANIMATOR

WHAT THEY DO

Create moving images using computers or drawings, for things like films, cartoons, TV shows and video games.

THE TECH

- Graphic design tools
- Animation software
- 3D modelling tools



CAREERS

IN TECHNOLOGY

ANIMATRONICS ENGINEER

WHAT THEY DO

Design, build and program life-like robots for films, theatre or theme parks.

THE TECH

- Robotics software
- 3D design software
- Sensors
- Artificial Intelligence (AI)



CAREERS

IN TECHNOLOGY

SPECIAL EFFECTS ARTIST

WHAT THEY DO

Create practical effects (explosions, fire, smoke and weather effects) on sets or stages to make films, TV shows and stage shows more exciting and realistic.

THE TECH

- Flame projectors
- Robots
- Water, wind and rain machines
- A range of software



CAREERS

IN TECHNOLOGY

VISUAL EFFECTS ARTIST

WHAT THEY DO

Use software to add effects like explosions, magic, or digital creatures to TV shows and films after the actors have been recorded.

THE TECH

- VFX (visual effects) software
- Motion capture systems
- 3D modeling and animation tools



CAREERS

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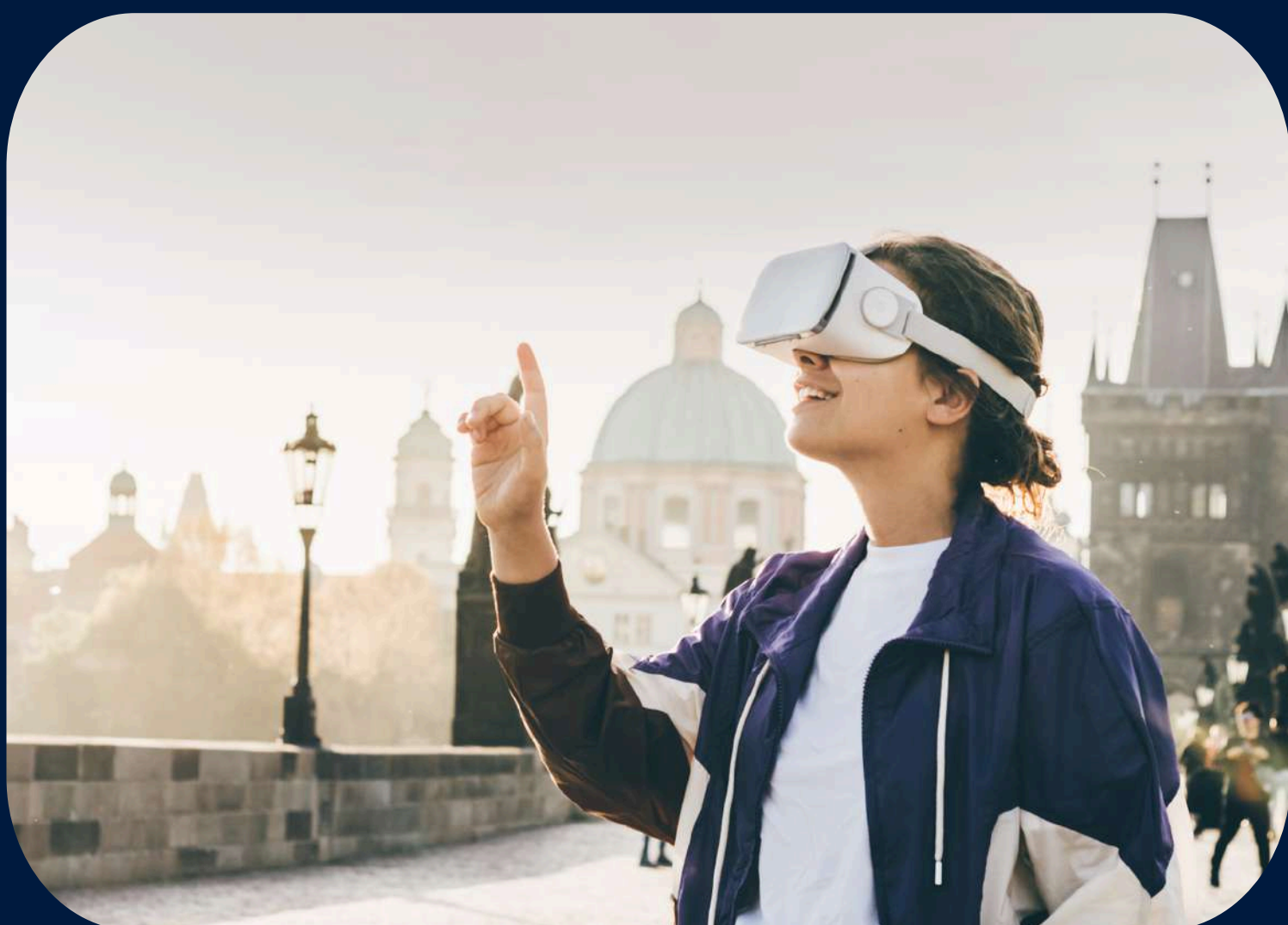
VR DESIGNER

WHAT THEY DO

Design and create new virtual reality experiences, which could be for entertainment, exercise, education, or other interactive activities.

THE TECH

- VR Headsets
- 3D modelling and animation software
- Sensors



CAREERS

IN TECHNOLOGY

MUSIC EDITOR

WHAT THEY DO

Choose music and sounds for things like films, TV shows, adverts and stage shows. Make sure that the music suits the mood and the timing is right.

THE TECH

- Audio editing software
- Audio equipment e.g. mixers, headphones
- Artificial intelligence (AI)



CAREERS

IN TECHNOLOGY

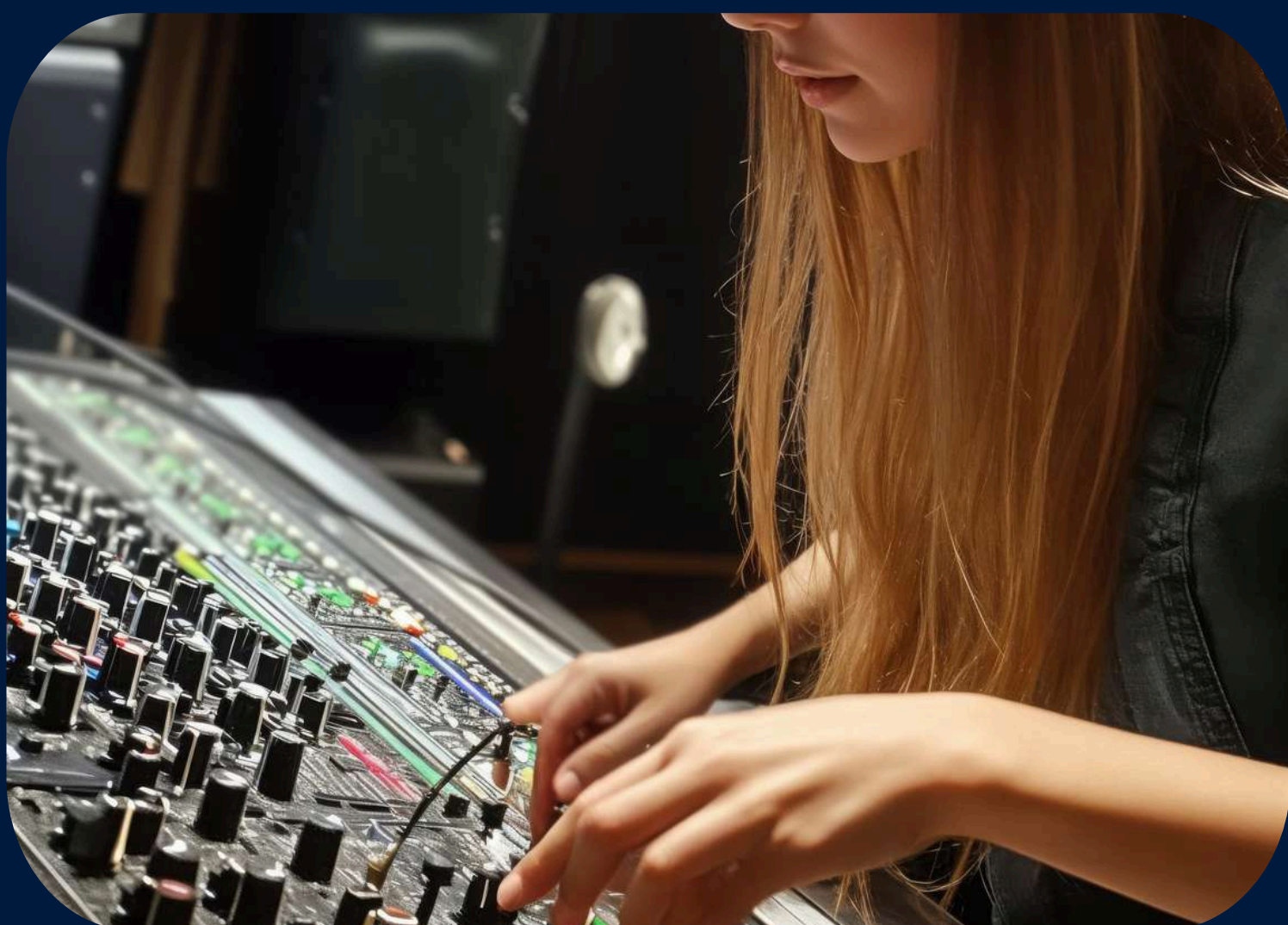
SOUND TECHNICIAN

WHAT THEY DO

Make sure that everything that people hear at concerts and events is clear and sounds great. Set up and monitor sound equipment.

THE TECH

- Audio software
- Audio equipment e.g. mixers, recording devices
- AI tools for cleaning up audio



CAREERS

IN TECHNOLOGY

DIGITAL ARCHIVIST

WHAT THEY DO

Digitally record historical documents like photographs and texts so that people can access them online.

THE TECH

- Artificial intelligence (AI)
- Databases
- Scanning tools



CAREERS

IN TECHNOLOGY

HISTORICAL DATA ANALYST

WHAT THEY DO

Analyse large sets of data to look for clues to what happened in the past and why.

THE TECH

- Artificial intelligence (AI)
- GIS (maps combined with historical data)
- Data analysis software (creating graphs / charts)



CAREERS

IN TECHNOLOGY

DIGITAL INTERACTIVE EXPERIENCE DEVELOPER

WHAT THEY DO

Design interactive displays in museums, like touchscreens, VR, games, and videos, to make them fun and interesting for visitors.

THE TECH

- Touch screens
- VR (Virtual Reality)
- AR (Augmented Reality)
- Sensors



CAREERS

IN TECHNOLOGY

SPACE ROBOTICS ENGINEER

WHAT THEY DO

Build and program robots, like rovers, to explore space and collect information about planets and moons.

THE TECH

- Robotics software
- Computer-aided design (CAD)
- Sensors
- Cameras
- Communication systems



CAREERS

IN TECHNOLOGY

SPACE BIOSCIENTIST

WHAT THEY DO

Study how space travel affects living things and develop tech to provide astronauts with food, water, and other essentials to survive in space.

THE TECH

- Lab equipment
- 3D printers
- Sensors
- Plant growth chambers



CAREERS

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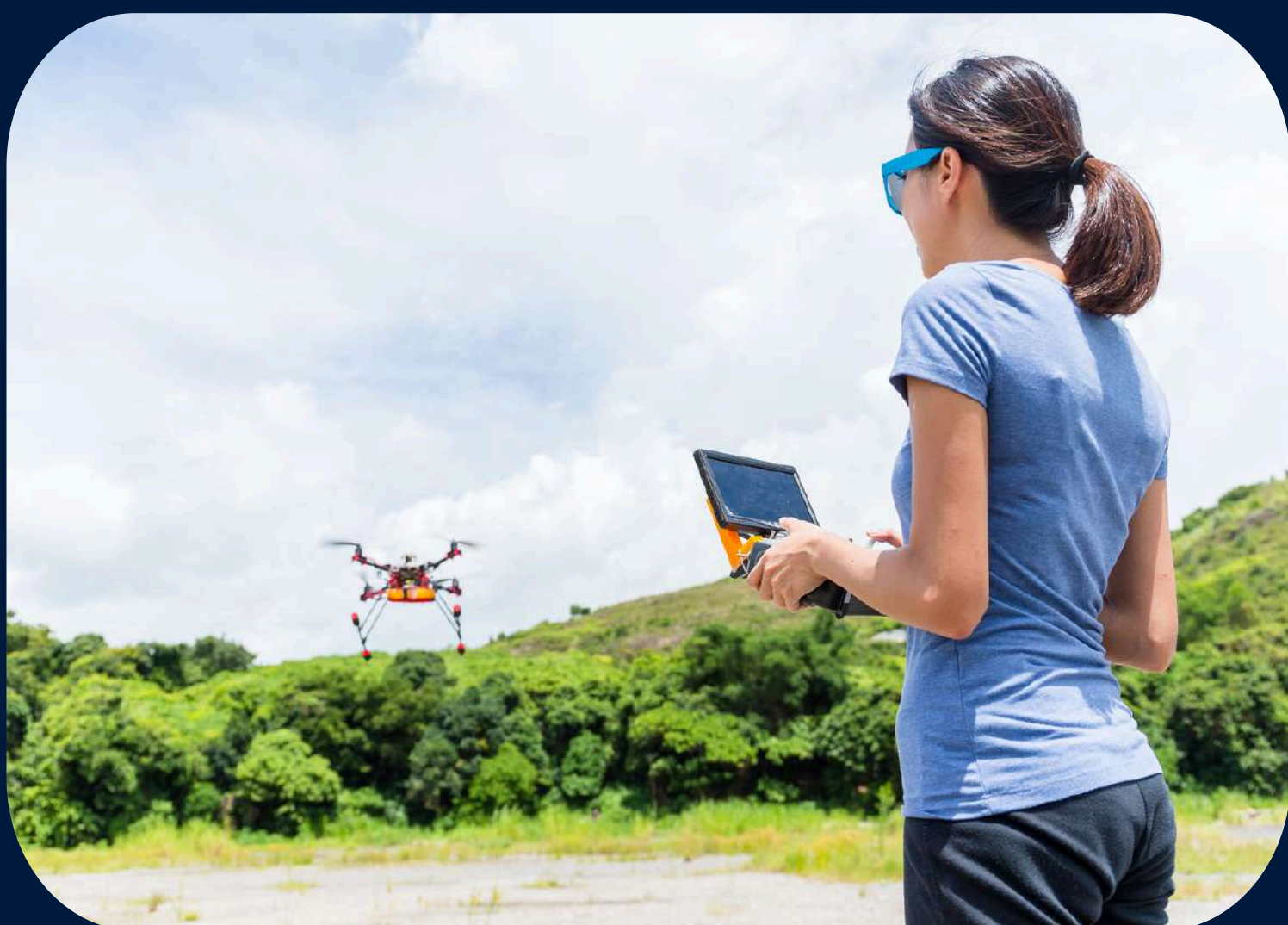
AERONAUTICAL ENGINEER

WHAT THEY DO

Design and build safe and useful flying machines, like planes, drones, or helicopters.

THE TECH

- Motors
- 3D printers
- Sensors
- GPS
- Computer-aided design (CAD)



CAREERS

IN TECHNOLOGY

AUTOMOTIVE ENGINEER



WHAT THEY DO

Design and build cars and other vehicles. They make them safer, faster, and more efficient, and work on new technologies like electric or self-driving cars.

THE TECH

- Computer-aided design (CAD)
- Robots
- Sensors
- Artificial intelligence (AI)

CAREERS

IN TECHNOLOGY

FINTECH ENGINEER

WHAT THEY DO

Build digital banking apps, and use tech to make money systems (like sending money to accounts across the world) smarter, faster and safer.

THE TECH

- Coding
- App development tools
- Artificial intelligence (AI)
- Machine learning



CAREERS

IN TECHNOLOGY

FINANCIAL DATA SCIENTIST

WHAT THEY DO

Analyse bank transactions or stock markets, spotting patterns. Help banks fight fraud and predict what customers will do with their money.

THE TECH

- Coding
- Artificial intelligence (AI)
- Machine learning
- Data visualisation tools (graphs / spreadsheets)



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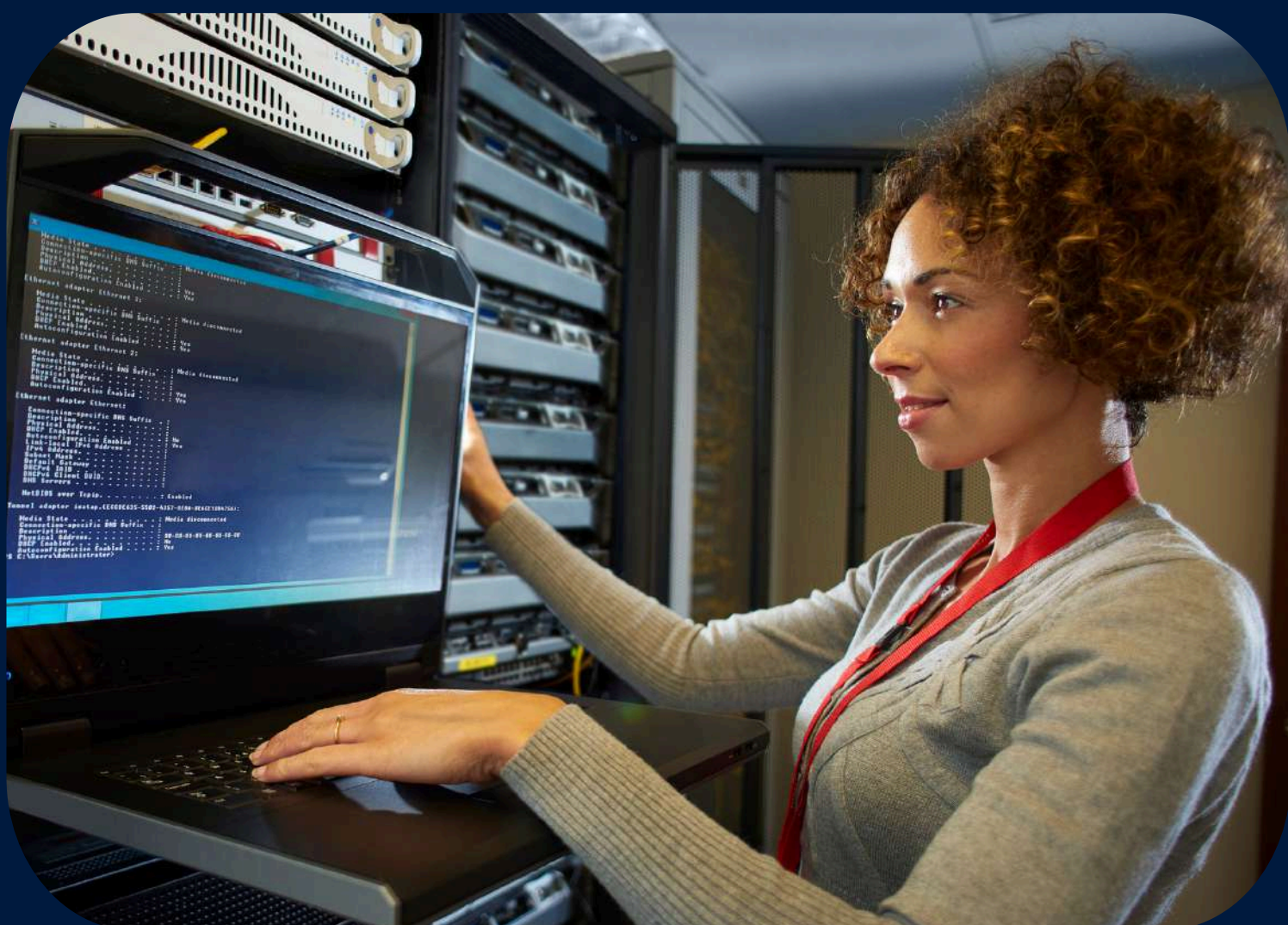
FRAUD INVESTIGATOR

WHAT THEY DO

Help protect a bank from financial crime by investigating fraud and help spot it before it happens.

THE TECH

- Artificial intelligence (AI)
- Fraud detection software
- Data analysis tools



CAREERS

IN TECHNOLOGY

CYBER THREAT INTELLIGENCE RESEARCHER

WHAT THEY DO

Search the internet and look for signs that there's a new way of attacking computers, or that someone might be planning a cyber attack against a business.

THE TECH

- Computer programming / scripting tools
- Data analysis tools
- Internet monitoring tools



CAREERS

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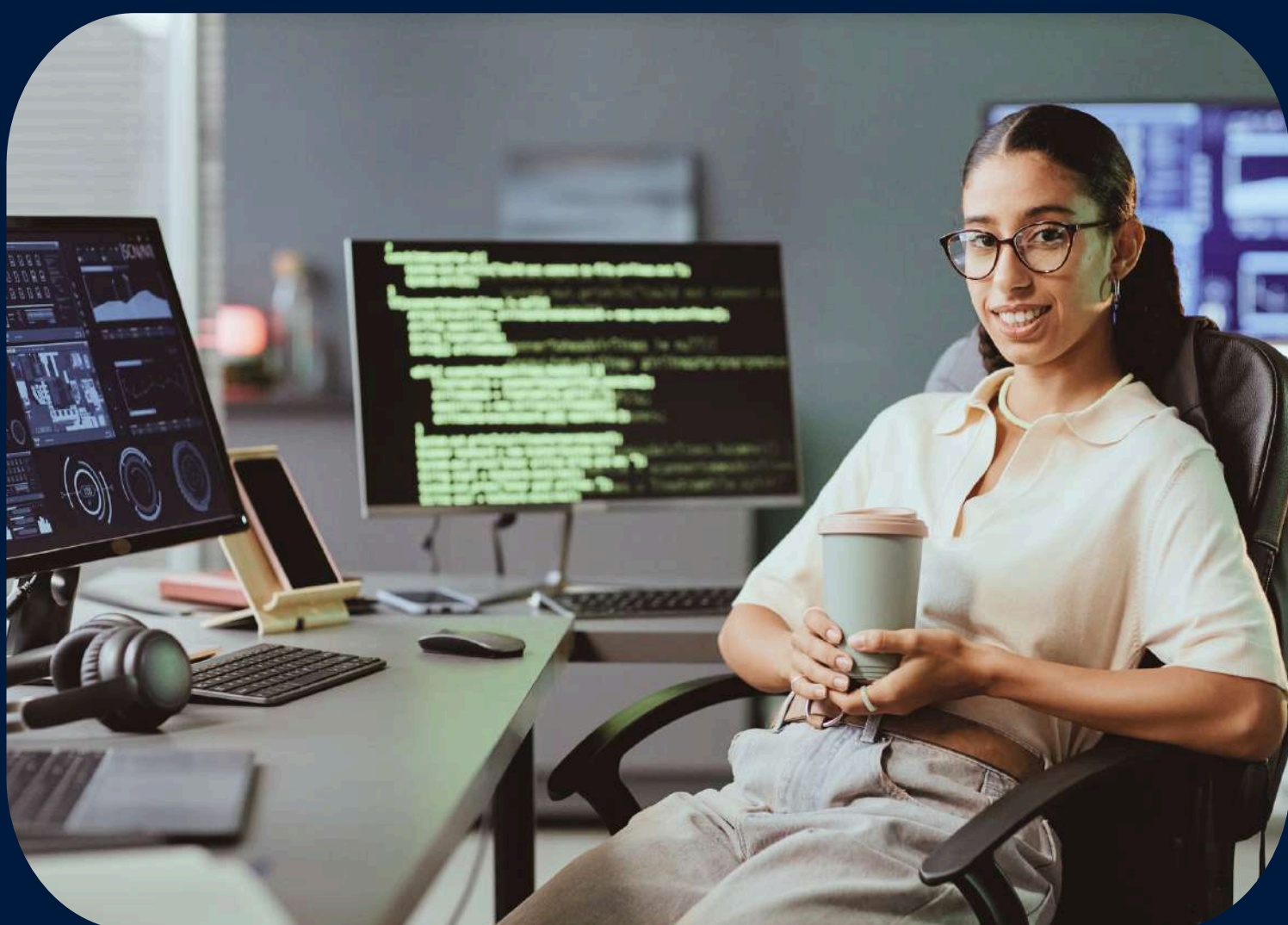
CYBER FORENSICS SPECIALIST

WHAT THEY DO

Investigate how cyber attacks happen – what happened, how it happened and why. They try work out how the criminal hackers managed to do it.

THE TECH

- Forensic software
- Data recovery tools
- Network traffic analysis tools



CAREERS

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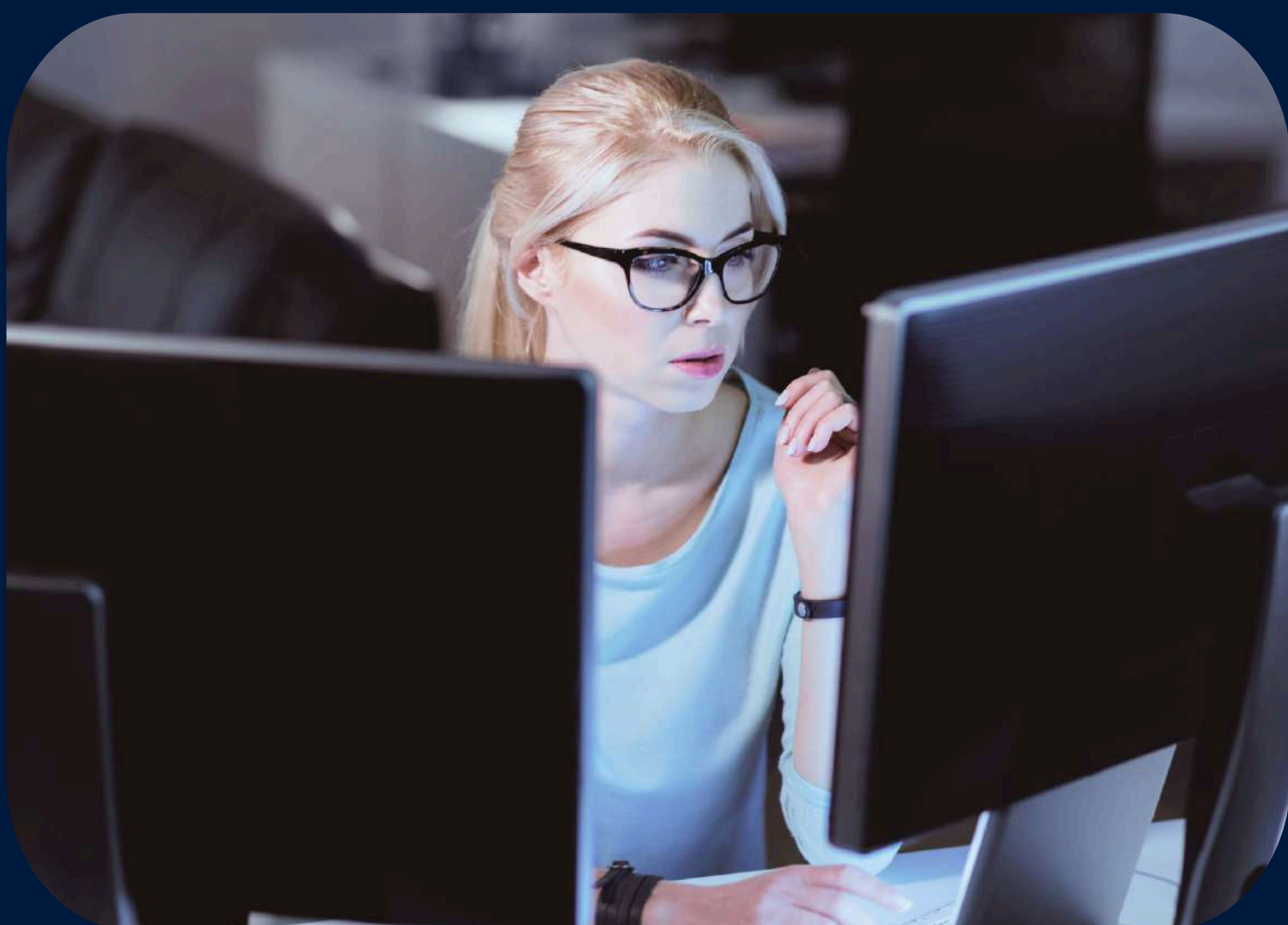
ETHICAL HACKER

WHAT THEY DO

Try to hack into companies, but with their permission. Their job is to test if their security is good enough, and help the company to improve it.

THE TECH

- Security testing software
- Programming/scripting tools
- Password & vulnerability tools



CAREERS

IN TECHNOLOGY

ROBOTICS SIMULATION SPECIALIST

WHAT THEY DO

Test robots in virtual environments (on a computer) before they are made to check they work well.

THE TECH

- Robotics software
- Computer-aided design (CAD)
- Simulation software
- 3D printing



CAREERS

IN TECHNOLOGY

CHATBOT DEVELOPER

WHAT THEY DO

Use AI technology to create chatbots for different organisations. Use language skills to make sure bots can understand and respond to customers properly.

THE TECH

- Coding
- Programming languages
- Design software
- Artificial intelligence (AI)



CAREERS

IN TECHNOLOGY

ACCESSIBILITY SPECIALIST

WHAT THEY DO

Use language and computing skills to make sure apps and websites are accessible to everyone, including people with disabilities.

THE TECH

- Graphic design tools
- Web coding tools
- Programming languages
- AR (Augmented Reality)
- VR (Virtual Reality)



CAREERS

IN TECHNOLOGY

AI AND MACHINE LEARNING ENGINEER



WHAT THEY DO

Create and train computer networks to do jobs and tasks that humans usually do. This could help us with all kinds of things in the future.

THE TECH

- Programming tools
- Data analysis tools
- Artificial Intelligence (AI)

CAREERS

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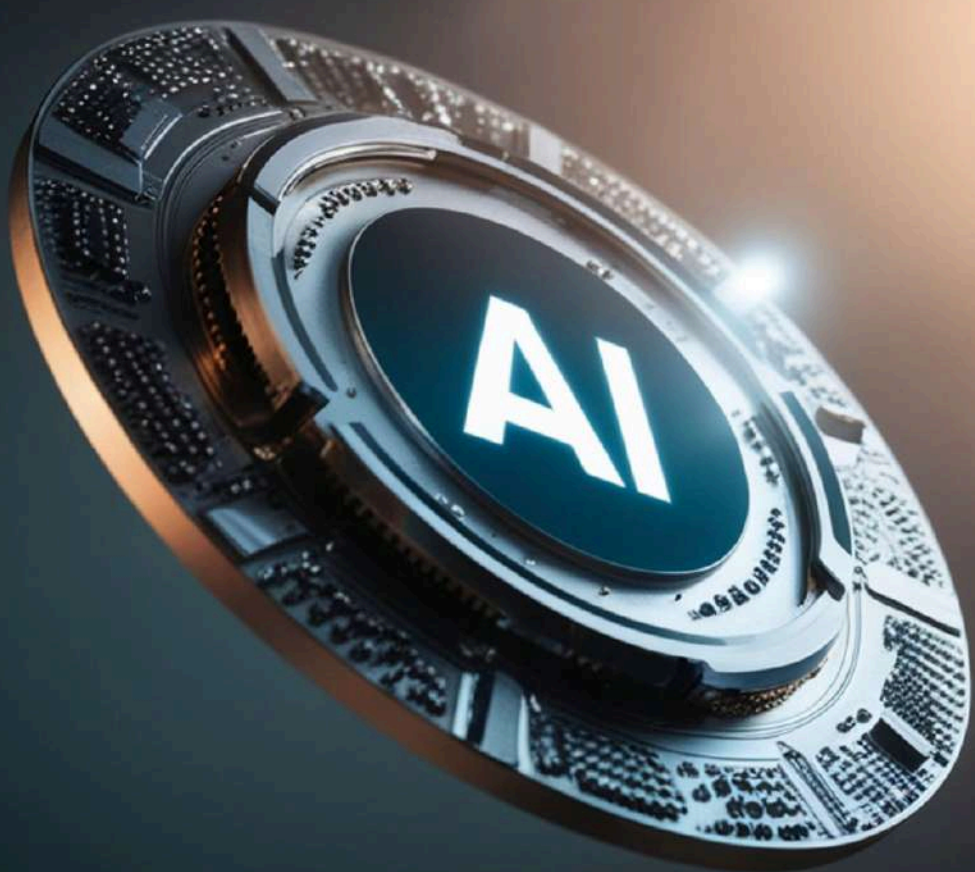
AI ETHICS SPECIALIST

WHAT THEY DO

Make sure AI is used responsibly, safely, and fairly. They ensure AI handles people's data responsibly and create guidelines and rules for using AI.

THE TECH

- Data tools
- Artificial Intelligence (AI)
- Monitoring tools
- Visualisation software



CAREERS

IN TECHNOLOGY

AUTONOMOUS VEHICLE ENGINEER

WHAT THEY DO

Design software so cars drive themselves, working with with sensors and cameras. Tests and improves AI driving systems.

THE TECH

- Cameras and sensors
- GPS tools
- Robot operating systems
- Driving simulation software



CAREERS

IN TECHNOLOGY

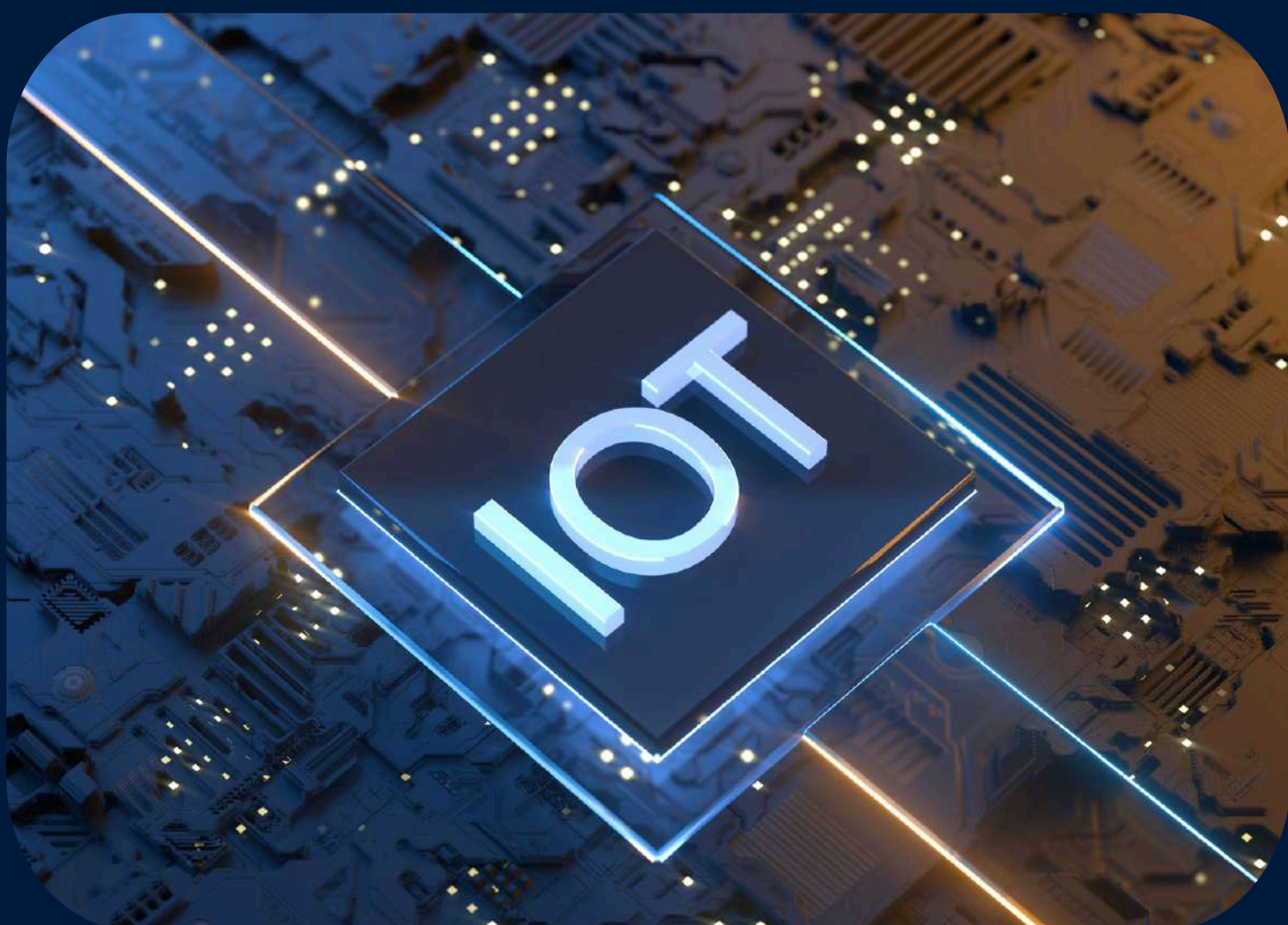
INTERNET OF THINGS (IOT) SPECIALIST

WHAT THEY DO

Make gadgets (like smart home devices, sensors, or wearables) talk to each other over the internet. Designs smart systems and analyses data to improve usage.

THE TECH

- Actuators and sensors
- Programming languages
- Cloud platforms
- Microcontrollers & boards



CAREERS

IN TECHNOLOGY

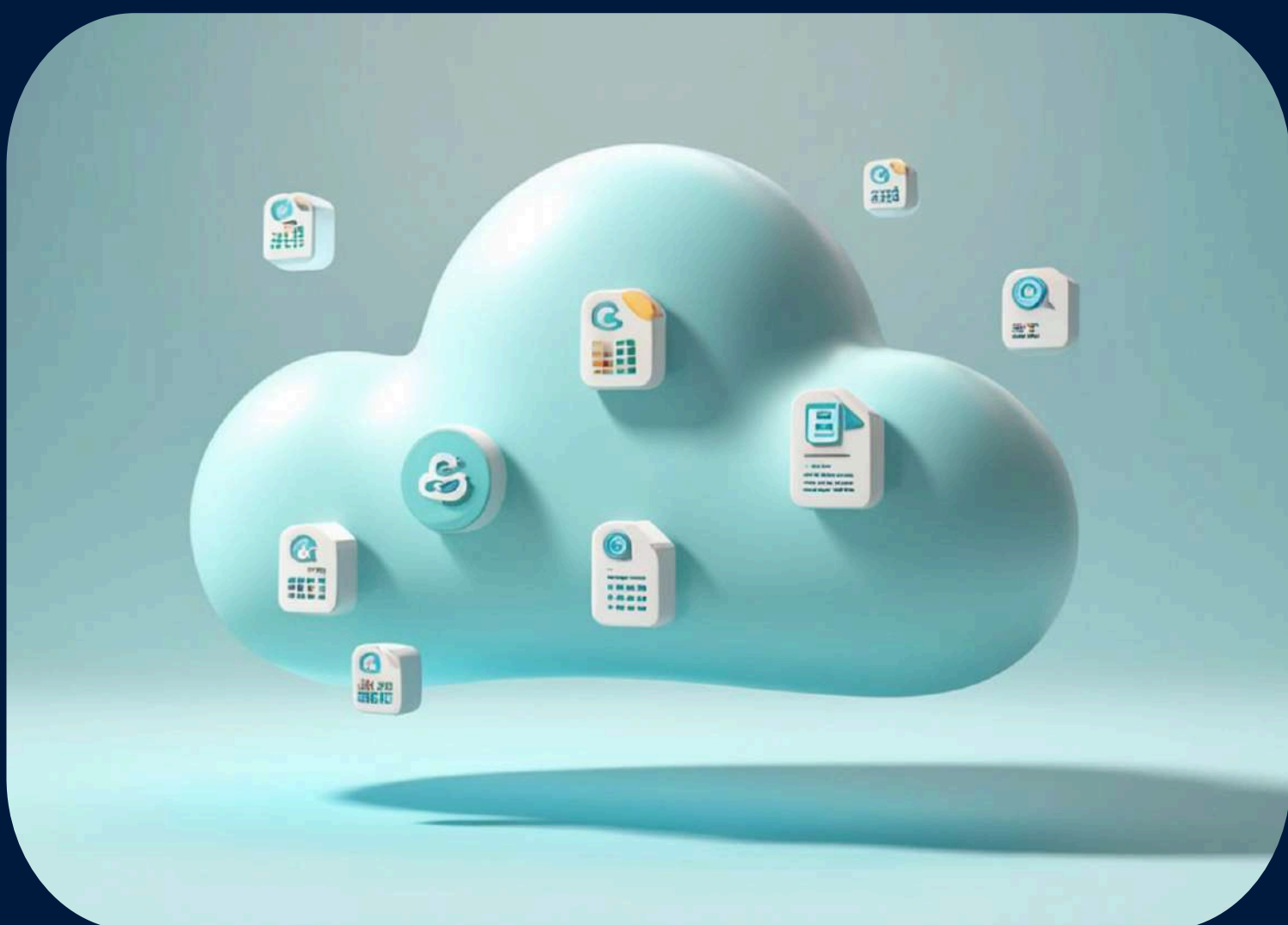
DATA WAREHOUSING SPECIALIST

WHAT THEY DO

Collect data from different sources and organise data, storing it neatly in a data warehouse so it's easy to access. Prepare data so analysts or AI can use it.

THE TECH

- SQL (Structured query language) tools
- Data analysis tools
- Cloud storage



CAREERS

IN TECHNOLOGY

DEV-OPS ENGINEER

WHAT THEY DO

Helps software updates happen fast and safely, and ensure software can be updated quickly without breaking anything.

THE TECH

- Coding and scripting tools
- Artificial Intelligence (AI)
- Monitoring tools

