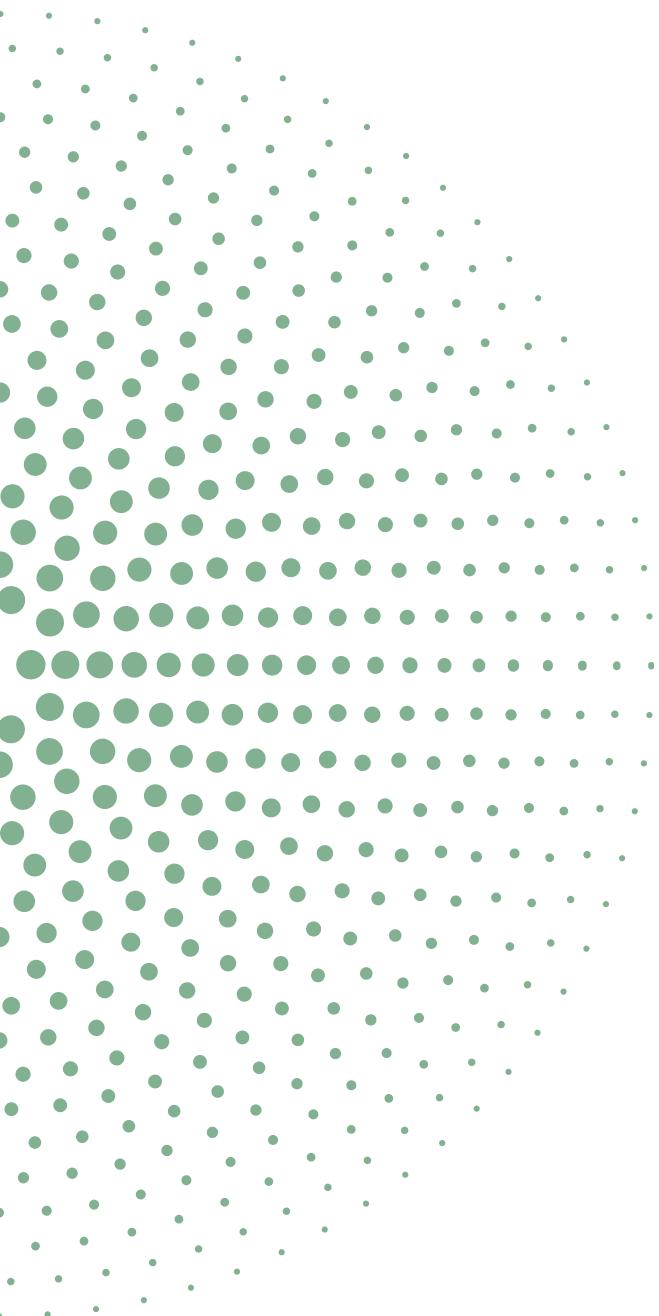


A close-up photograph of a hand watering a small green plant. The hand is positioned on the left, with water dripping from the fingers onto the soil. The plant is on the right, with several green leaves. The background is a soft, out-of-focus green field. A semi-transparent green banner is overlaid on the image, containing the title text.

VRGreenAdv Green Guidance & Career Education Guide



Co-funded by
the European Union

The project "VRGreen Adventure (Nº 2022-1-ES01-KA220-SCH-00086689)" is co-funded by the European Union. The opinions and points of view expressed in this presentation only commit DEP Institut, S.L. and do not necessarily reflect those of the European Union or those of the Spanish Service for the Internationalization of Education (SEPIE). Neither the European Union nor the National Agency SEPIE can be held responsible.



This work is openly licensed under a [Creative Commons Attribution-NonCommercial-ShareAlike 4.0 International License](https://creativecommons.org/licenses/by-nc-sa/4.0/).

INDEX

1 Introduction



2 What are green professions?



3 Green areas of work



4 18 Professional Profile



5 Green Skills



6 Green Ways of Working



7 Integration of Green Career Education



8 Exploration discussion questions and prompts to use with the 360° videos



Introduction

1

Green Guidance, frequently linked to social justice, questions current mainstream values, such as the link between career development and economic growth as a yardstick for societal achievements. In doing so, it puts career guidance in a pivotal societal position in terms of sustainability issues (Packer, 2019). Green Guidance moves career exploration and career-decisions to a higher note of personal commitment, societal involvement, and meaningfulness. Moreover, especially in relation to globalization, and to social justice, it places guidance in a central global position, highlighting the urgent need for early childhood interventions to help younger children, even from primary education to get acquainted with the changing and greening world of work, green career development, and sustainable future career pathways. This new Green Career Guidance paradigm highlights the need for citizens of all ages and especially younger generations to learn about the new emerging career choices opened in the green economy, to reflect on multiple careers and work roles within the bigger picture of planetary health and sustainability and explore their aligned professional choices towards human well-being but also long term well-being of the earth (Plant, 2008, 2014. European Training Foundation (2020).

In this scope, the VRGreenAdv Partnership has worked to develop green career education material on emerging green career pathways, in an overall attempt to bring students closer to the green growth prospects and increase their engagement in environmentally friendly career options and role models.

This guide provides experiences and activities with the aim to familiarize with the “green” world of work in a way that is engaging for students aged 10-14 years.

What are “Green Professions”?

2

The world is changing and as we work to protect our environment and the planet, it affects our work and the jobs and professions around us. Jobs and Professions are considered “Green” when they focus on the environment, protecting our planet’s natural resources and limiting harmful impacts.

Some green professions are new - they did not exist 20 or maybe even 10 years ago. Green jobs or professions could also be traditional professions that incorporate green skills.

"Green professions" refer to jobs that contribute to preserving or restoring the environment and promoting sustainability. These careers are focused on reducing pollution, conserving resources, improving energy efficiency, and supporting eco-friendly practices. The scope of green professions is broad, covering a range of industries and activities that are crucial for fostering environmental sustainability and addressing climate change.

This guide presents Green areas of work and 18 profiles of green jobs with 360° videos, Green Skills and Green Ways of Working in today’s World of Work.

Green areas of work 3

Green professions can be found transversally throughout the labor market.

Based on a survey of companies and research, 18 profiles were selected and they cover the seven thematic blocks analyzed and used throughout the VRGreen Adventure project:

ENERGY	Renewable energy technician	Building energy efficiency technician
	Green Building Specialist	
TRANSVERSAL	Environmental auditor	Green data analystsí
	Ecological product designer	Sustainable Tourism Manager
	Green marketing specialist	Forest Protection Specialist
	Sustainable Supply Chain Managers	Climate resilience planners
	Environmental educator	Environmental systems manager
REUSE	Circular economy consultants	
GREEN FOOD	Sustainable Supply Chain Managers(*)	Organic farmer
WATER	Responsible for aquaculture operations	
MOBILITY	Mobility specialist in collective transport	
RECYCLING, NON RECYCLABLE WASTE	Waste management specialist	

ENERGY

RENEWABLE ENERGY TECHNICIAN

A day in the life:

A typical day in the life of a renewable energy technician involves installation, maintenance and troubleshooting of renewable energy systems, such as solar panels, wind turbines, or hydroelectric generators. They perform routine inspections, diagnose technical issues, and conduct repairs to ensure optimal system performance. Technicians monitor energy output, analyze data, and make adjustments for efficiency and reliability according to safety protocols.

Renewable energy technicians work both indoors and outdoors, depending on the type of renewable energy system they are working on. They typically work full time, and some may work overtime, especially when they are installing or repairing a system. They may work in all types of weather conditions and at great heights. Some technicians may travel to different locations to work on different projects.



Scan to see the 360° video



» Main tasks and features

The tasks of a renewable energy technician can vary depending on the specific field of renewable energy (such as solar, wind, hydro, biomass, geothermal, etc.) they specialize in, as well as their role within a company or organization. However, here are some of the main tasks commonly associated with the role of a renewable energy technician:

Installation and Maintenance	<p>They install and assemble renewable energy systems, such as solar panels, wind turbines, hydroelectric generators, geothermal systems, or biomass facilities. They perform routine inspections, preventive maintenance, and repairs on renewable energy equipment and components to ensure optimal performance and longevity.</p>
Troubleshooting and Diagnostics	<p>They identify and diagnose technical issues, faults, or malfunctions in renewable energy systems using diagnostic tools and equipment.</p>
System Monitoring and Performance Evaluation	<p>They monitor the performance of renewable energy systems by collecting and analyzing data on energy production, efficiency, and output and they detect any deviations from expected performance and take corrective actions as needed.</p>
Safety Compliance and Protocols	<p>They adhere to safety protocols and standards to ensure a safe working environment, use personal protective equipment (PPE) and follow safety guidelines when working with renewable energy systems and associated equipment.</p>
Documentation and Reporting	<p>They maintain accurate records, logs, and documentation of maintenance activities, inspections, repairs, and system performance data and they generate reports detailing maintenance schedules, equipment status, and any necessary repairs or replacements.</p>
Continuous Learning and Development	<p>They stay updated on technological advancements, industry trends, and best practices in renewable energy through training, workshops, certifications, and skills development.</p>
Customer Interaction	<p>In roles involving customer-facing responsibilities, technicians might engage with clients, providing information, answering questions, and offering advice on system operations or maintenance.</p>

» Challenges

Some of the common difficulties renewable energy technicians face include:

Safety Risks	Working with renewable energy systems, especially at heights (such as wind turbines or solar panel installations), can pose safety risks. There is high possibility of accidents or injuries while working at heights or handling heavy equipment.
Difficult working conditions due to remote locations and harsh weather	For example, wind turbines are typically installed in remote locations, often far away from urban centers, making the job more challenging. They have to commute long distances, sometimes on rough terrains, to reach these locations.
Public Perception and Opposition	Sometimes, there can be opposition from communities or stakeholders due to concerns about aesthetics, noise, or other environmental impacts of renewable energy installations.

» Tools

Renewable energy technicians use a variety of specialized tools and equipment to install, maintain, troubleshoot, and optimize renewable energy systems. The specific tools they use can vary depending on the type of renewable energy they work with (such as solar, wind, hydro, biomass, geothermal, etc.) and the tasks they perform. Here is a list of common tools and equipment that renewable energy technicians may use:

Safety Gear and Personal Protective Equipment (PPE)	Hard hats, safety glasses, gloves, ear protection, and safety harnesses are essential for working safely in renewable energy installations.
Hand Tools	Screwdrivers, wrenches, pliers, wire cutters, cable strippers, hammers, measuring tapes, levels, and various hand tools for assembly, disassembly, and basic maintenance tasks.
Power Tools	Drills, impact drivers, saws, grinders, and other power tools for cutting, drilling, fastening, and other installation or repair tasks.
Testing and Diagnostic Equipment	Multimeters, voltage testers, infrared thermometers, thermal imaging cameras, and other testing devices to measure electrical output, temperature, and system performance.
Lifting and Rigging Equipment	Hoists, cranes, pulleys, winches, and lifting equipment used for the installation and maintenance of heavy components in wind turbines, solar panels, or hydroelectric systems.
Safety Climbing Equipment	Safety harnesses, lanyards, ropes, and climbing gear required for technicians working at heights, such as on wind turbines or solar arrays.
Data Logging and Monitoring Devices	Data loggers, monitoring systems, and software used to collect and analyze performance data from renewable energy systems.

» Subjects and skills that are important:

Becoming a renewable energy technician involves a combination of educational subjects and practical skills that provide a strong foundation for working in the field. Here are some important school subjects and skills that are valuable for aspiring renewable energy technicians:

School subjects:

- **Physics:** Understanding principles of physics is crucial for comprehending energy conversion, mechanics, thermodynamics, and the behavior of renewable energy systems. Topics such as energy, electricity, forces, and motion are highly relevant.
- **Chemistry:** Knowledge of basic chemistry principles can be valuable, especially in understanding materials used in renewable energy technologies, such as photovoltaic cells, batteries, or chemical reactions in bioenergy systems.
- **Biology:** In the case of bioenergy systems, having a basic understanding of biological processes and organic materials used in biomass conversion can be advantageous.
- **Mathematics:** Proficiency in mathematics, including algebra, geometry, trigonometry, and calculus, is crucial for calculations, measurements, and system design in renewable energy.
- **Environmental Studies or Environmental Science:** Learning about environmental science and sustainability provides insights into the environmental impacts of energy generation and the importance of renewable energy in mitigating climate change.
- **Technology and Engineering:** Courses that introduce engineering principles, technological concepts, and problem-solving techniques are beneficial, as they lay the groundwork for understanding renewable energy systems' operation and maintenance.
- **Computer Science or Information Technology:** Basic understanding of computer programming, data analysis, and software applications is increasingly valuable in monitoring, controlling, and optimizing renewable energy systems.

Skills

- **Mechanical Skills:** Proficiency in using hand and power tools for assembly, disassembly, maintenance, and repairs of renewable energy systems, especially in fields like wind or hydroelectric energy.
- **Electrical Skills:** Understanding electrical circuits, components, and systems involved in renewable energy technologies, such as solar photovoltaic (PV) systems or grid integration.
- **Technical Aptitude:** Ability to understand technical concepts and apply them practically in operating, maintaining, and troubleshooting renewable energy systems.
- **Problem-Solving Skills:** Capacity to analyze problems, diagnose issues, and devise effective solutions when dealing with technical challenges in renewable energy systems.
- **Attention to Detail:** Being meticulous in conducting inspections, measurements, and system checks to ensure accuracy and identify potential issues.
- **Safety Awareness:** Understanding and adhering to safety protocols, using personal protective equipment (PPE), and maintaining a safe work environment in compliance with industry standards.
- **Communication Skills:** Effective communication with colleagues, engineers, and supervisors regarding technical information, project details, and problem-solving.
- **Analytical Thinking:** Ability to analyze system performance data, evaluate efficiency, and make informed decisions to optimize renewable energy systems.
- **Adaptability and Continuous Learning:** Willingness to adapt to new technologies and engage in ongoing learning to keep up with advancements in the field of renewable energy.
- **Time Management:** Efficient management of tasks, adherence to schedules, and completion of work within specified timelines.
- **Collaboration and Teamwork:** Working effectively as part of a team to accomplish project objectives and goals.

Education Level

The educational level required to become a renewable energy technician can vary based on several factors, including the specific job requirements, employer preferences, and the complexity of the role. Generally, there's a range of educational pathways that individuals pursuing a career as a renewable energy technician might take:

- **High School Diploma or Equivalent:** Some entry-level positions in the renewable energy field, particularly technician assistant roles or basic installation and maintenance positions, may only require a high school diploma or GED (General Educational Development) equivalent. However, having relevant coursework in science, mathematics, and technology can be advantageous.
- **Vocational Training or Certificate Programs:** Many renewable energy technicians pursue vocational training or certificate programs offered by community colleges, technical schools, or vocational institutions. Certificate programs can vary in duration, from several months to a year or more.
- **Bachelor's Degree:** While not always required for entry-level positions, having a bachelor's degree in fields like electrical engineering, mechanical engineering, environmental science, or renewable energy can enhance job prospects and open up more advanced or specialized roles within the renewable energy industry.
- **On-the-Job Training and Certifications:** In addition to formal education, on-the-job training, apprenticeships, or industry-specific certifications are often important for gaining practical experience and specialized skills. Manufacturers, industry associations, and renewable energy organizations may offer certifications related to specific technologies or installation practices.

ENERGY

BUILDING ENERGY EFFICIENCY TECHNICIAN

A day in the life:

An energy efficiency technician helps buildings use energy and water wisely. They work with engineers and architects to make sure buildings are energy efficient. A typical day involves checking how buildings use energy, suggesting ways to save energy, and making sure buildings follow energy rules. They also promote saving energy and help set up solar panels.



Scan to see the 360° video



Main tasks and features

- Managing how buildings use energy.
- Checking the efficiency of energy and water systems in buildings.
- Analyzing heating, cooling, ventilation, and lighting systems.
- Helping with the energy certification process for buildings.
- Suggesting improvements to save energy and figuring out if solar panels can be used.
- Applying good environmental practices to save natural resources.
- Making technical changes to improve building management.
- Supervising building requirements and energy needs.
- Preparing reports to suggest ways to save energy.
- Organizing and supervising safety and environmental measures.
- Monitoring building equipment to meet energy-saving standards.
- Coordinating maintenance and checking the effectiveness of energy-saving devices.
- Conducting checks to make sure buildings follow energy efficiency rules.



Challenges

- Encouraging companies to care about energy efficiency.
- Navigating complex rules to find the best ways to save energy.
- Ensuring collaboration among different stakeholders to manage energy resources effectively.
- Helping companies make environmentally-friendly choices.
- Communicating the importance of energy efficiency to various audiences.

» Subjects and skills that are important:

School subjects:

- Science (especially physics and environmental science)
- Mathematics
- Technology
- Engineering
- Environmental Studies

Skills

- Proficiency in energy rating and evaluation software
- Advanced use of measurement and verification equipment
- Knowledge of energy-saving evaluation protocols
- Experience in designing and executing energy-related projects
- Basic knowledge of eco-friendly building designs
- Leadership skills
- Communication skills
- Collaboration and teamwork

Education Level

- High School Diploma or Equivalent
- Vocational Training or Certificate Programs in energy efficiency or related fields
- Bachelor's degree in fields such as environmental sciences, architecture, engineering (civil, energy, electronic systems, industrial technologies, etc.)
- Industry Certifications in energy efficiency and environmental management

ENERGY

GREEN BUILDING SPECIALIST

A day in the life:

Imagine a day in the life of a Green Building Modelling Specialist—an architect of sustainability and efficiency, dedicated to revolutionizing the construction industry. These professionals harness cutting-edge technologies to design buildings that are environmentally friendly, energy-efficient, and resilient. They use advanced modelling software and data analytics to optimize building performance and minimize environmental impact. Join their journey as they shape the future of architecture, one sustainable structure at a time. 🌱🏢



Scan to see the 360° video



» Main tasks and features

Green Building Modelling Specialists are at the forefront of sustainable building design, utilizing advanced modelling techniques to create environmentally responsible structures. Their main tasks include:

Energy Modelling	Using building energy modelling software to analyse energy consumption, optimize building design for energy efficiency, and integrate renewable energy systems.
Daylighting Analysis	Conducting daylighting simulations to maximize natural light penetration, reduce reliance on artificial lighting, and enhance occupant comfort and well-being.
Thermal Performance Simulation	Performing thermal analysis to assess building envelope performance, optimize insulation levels, and minimize heat loss or gain.
Life Cycle Assessment (LCA)	Conducting life cycle assessments to evaluate the environmental impact of building materials, construction methods, and design choices over the entire life cycle of a building.
Water Efficiency Modelling	Utilizing water efficiency modelling tools to optimize water use, implement water-saving strategies, and integrate rainwater harvesting or greywater recycling systems.
Indoor Air Quality (IAQ) Modelling	Assessing indoor air quality through modelling simulations to optimize ventilation strategies, reduce indoor pollutants, and enhance occupant health and comfort.
Green Building Certifications	Guiding projects through green building certification processes, such as LEED (Leadership in Energy and Environmental Design) or BREEAM (Building Research Establishment Environmental Assessment Method), to achieve sustainability goals and meet certification requirements.

Sustainable Material Selection	Collaborating with architects and engineers to select eco-friendly building materials, such as recycled content, low VOC (volatile organic compound) materials, and locally sourced products.
Renewable Energy Integration	Integrating renewable energy systems, such as solar panels, wind turbines, or geothermal heating and cooling, into building designs to reduce reliance on fossil fuels and minimize carbon emissions.
Performance Monitoring and Optimization	Monitoring building performance post-construction, analysing data, and identifying opportunities for optimization to ensure buildings operate at peak efficiency throughout their lifecycle.



Challenges

Complex Modelling Tools

Mastering complex modelling software and techniques requires continuous learning and technical expertise.

Balancing Trade-Offs

Balancing competing priorities, such as energy efficiency, cost-effectiveness, and design aesthetics, poses a challenge in sustainable building design.

Changing Regulations

Staying abreast of evolving building codes, green building standards, and sustainability regulations requires ongoing education and compliance management.

Tools

Green Building Modelling Specialists utilize a variety of tools and software to optimize building performance and sustainability:


Building Information Modelling (BIM) Software	Used for 3D modelling, visualization, and collaboration in building design and construction projects.
Energy Modelling Software	Analyses building energy performance, predicts energy consumption, and evaluates the impact of energy-saving measures.
Daylighting Simulation Tools	Simulates natural daylighting conditions to optimize building design for daylight penetration and reduce reliance on artificial lighting.
Thermal Analysis Software	Calculates building thermal performance, assesses heat transfer through building components, and optimizes insulation levels.
Life Cycle Assessment (LCA) Tools	Evaluates the environmental impact of building materials, construction methods, and design choices over the entire life cycle of a building.
Water Efficiency Modelling Software	Optimizes water use, implements water-saving strategies, and assesses the environmental impact of water management practices.

**Indoor Air Quality
(IAQ) Modelling Tools**

Simulates indoor air quality conditions, evaluates ventilation strategies, and assesses the impact of building design on occupant health.

**Renewable Energy
Analysis Software**

Analyses the feasibility and performance of renewable energy systems, such as solar photovoltaics and wind turbines, integrated into building designs.





Subjects and skills that are important:

Becoming a Green Building Modelling Specialist requires a blend of academic subjects and valuable skills:

School subjects:

- **Architecture:** Provides foundational knowledge in building design principles, architectural theory, and construction methods.
- **Engineering:** Offers insights into structural engineering, mechanical systems design, and building physics relevant to sustainable building design.
- **Environmental Science:** Explores environmental principles, sustainability concepts, and ecological considerations relevant to building design and construction.

Computer Science: Develops proficiency in computer-aided design (CAD), building information modelling (BIM), and simulation software used in green building modelling.

Skills

- **Technical Proficiency:** Mastery of building modelling software, energy analysis tools, and simulation techniques used in sustainable building design.
- **Analytical Thinking:** Ability to analyse complex data, interpret simulation results, and make informed decisions to optimize building performance.
- **Creativity:** Innovative thinking and creative problem-solving skills to develop sustainable design solutions that balance performance, aesthetics, and environmental impact.
- **Collaboration:** Effective communication and collaboration skills to work with multidisciplinary teams of architects, engineers, and sustainability consultants.

Environmental Consciousness: Deep understanding of environmental issues, sustainability principles, and green building strategies to guide sustainable design decisions.

Education Level

Embarking on a career as a Green Building Modelling Specialist typically involves the following educational journey:

- **Graduation's Degree:** Begin with a Graduation's degree in Architecture, Civil Engineering, Environmental Engineering, or a related field, providing foundational knowledge in building design and construction.
- **Master's Degree (Optional):** Consider pursuing a Master's degree in Sustainable Design, Building Performance Analysis, or a related field to deepen expertise in green building modelling and sustainability assessment.
- **Professional Certifications:** Obtain professional certifications, such as LEED Accredited Professional (LEED AP) or Building Energy Modelling Professional (BEMP), to demonstrate proficiency in sustainable building design and modelling.

In summary, becoming a Green Building Modelling Specialist requires a combination of technical expertise, creative thinking, and environmental consciousness. By leveraging advanced modelling tools and sustainable design principles, these professionals play a crucial role in shaping a more sustainable built environment. 🌿🏢

TRANSVERSAL

ENVIRONMENTAL AUDITOR

A day in the life:

An environmental auditor is like a superhero for our planet! Their mission is to ensure everyone treats the Earth kindly by checking if energy is used wisely, recycling is done properly, and there's no pollution. If they find something not-so-planet-friendly, they talk to those in charge and suggest ways to make things better. With their special power, environmental auditors help keep Earth clean and healthy, just like superheroes saving the day for our home!



Scan to see the 360° video



» Main tasks and features

An environmental auditor is like a nature detective. Their main job is to make sure that companies, any kind of organisations and places are being nice to the Earth. Here's what they do:

Check if Rules are Followed	They look at organisations to see if they are following the rules about taking care of the environment.
Watch How Things Use Energy	They see how much energy and stuff an organisation uses. If they use too much, the auditor helps them find better ways.
Look at Trash	They check how schools, companies, etc. throw away their trash. If it's not done in a good way, they help them do it better.
Stop Bad Stuff from Going into Nature:	The auditor makes sure that organisations don't put bad things into the air, water, or ground. They want to keep nature clean.
Teach People About Nature	Some auditors teach people at different organisations why nature is important. They help them understand how to be more careful with the Earth.
Tell Organisations How to be Better	After checking everything, the auditor tells the company or other organisation, like a school what they can do to be even nicer to the planet.
Write Down Everything	The auditor writes down everything they find and makes a report. This helps the organisation know what's good and what needs to be better.
Keep Checking	The auditor keeps coming back to check if the organisation keeps being good to the Earth.

So, an environmental auditor is like a superhero for nature, making sure everyone is doing their best to keep our planet happy and healthy!

Challenges

An environmental auditor faces several challenges in their important role of protecting the environment:

Finding Hidden Issues	Identifying environmental problems in complex systems can be like solving a puzzle. Some issues may not be immediately visible.
Communication	Effectively communicating the importance of environmental conservation to various stakeholders, including businesses and communities, can be challenging.
Changing Behavior	Encouraging individuals and organizations to adopt eco-friendly practices and change their behavior requires patience and persuasion.
Navigating Regulations	Staying updated with and navigating through complex environmental regulations and standards can be demanding.
Resistance to Change	Some businesses or individuals may resist making changes to more sustainable practices due to concerns about cost or disruption.
Balancing Priorities	Environmental auditors often need to balance environmental priorities with other concerns like economic considerations, which can be challenging.
Implementing Solutions	Turning audit findings into concrete actions and ensuring the implementation of sustainable solutions can be a complex process.

Keeping Pace with Technology	As technology evolves, auditors need to stay informed about new developments and how they impact the environment.
Measuring Impact	Quantifying the positive impact of environmental initiatives and assessing their effectiveness can be a complex task.

Despite these challenges, environmental auditors play a crucial role in promoting sustainable practices and protecting the planet.

» Tools

Environmental auditors use various tools to investigate and protect the environment. Take a look at some of these:

Checklists	They use lists to make sure they don't miss anything important during their audits.
Monitoring Devices	Instruments like air quality meters, water quality testers, and noise level meters help them measure different aspects of the environment.
Camera	Taking pictures helps them document what they find and show evidence to others.
Maps and GPS	Maps and GPS devices help them navigate and locate specific areas they need to inspect.
Computer Software	Environmental auditors use computer programs to analyze data, create reports, and stay organized.

These tools help environmental auditors gather information, assess environmental conditions, and ensure that everyone is doing their part to keep the planet healthy.

» Subjects and skills that are important:

Becoming an environmental auditor involves studying various subjects that help develop the necessary skills and knowledge.

If a student wishes to become an environmental auditor, here are some **school subjects** that can be beneficial for him/her:

School subjects:

- **Science:** Understanding the basics of biology, chemistry, and environmental science provides a foundation for comprehending environmental processes and issues.
- **Mathematics:** Math skills are essential for data analysis, measurement, and calculations related to environmental assessments.
- **Geography:** Studying geography helps in understanding different ecosystems, climate patterns, and geographical features, which are crucial for environmental audits.
- **Environmental Studies:** Courses specifically focusing on environmental science, policy, and management provide in-depth knowledge of environmental issues and conservation practices.
- **Physics:** Physics concepts can be relevant for understanding environmental phenomena like energy transfer and pollution dispersion.
- **Geology:** Knowledge of geology can be valuable for assessing soil quality, geological hazards, and other related environmental factors.
- **Statistics:** Understanding statistical methods is beneficial for analyzing environmental data and drawing meaningful conclusions.
- **Computer Science:** Proficiency in using computer software for data analysis, modeling, and report generation is advantageous.

Skills

Here are also some skills that an environmental auditor should have:

- **Observation:** Like a detective, they should be great at noticing things in the environment.
- **Communication:** They must be able to talk to people and explain why protecting the environment is crucial.
- **Problem-Solving:** Finding solutions to environmental issues is like solving a puzzle.
- **Patience:** Changes for a healthier environment might take time, so patience is key.
- **Attention to Detail:** Small things can make a big difference, so they need to pay close attention.
- **Teamwork:** Working together with others helps achieve bigger environmental goals.
- **Adaptability:** The environment changes, and auditors need to adapt to new situations.

Education Level

The educational journey of an environmental auditor typically involves:

- **Bachelor's Degree:** Begin by earning a bachelor's degree in a related field such as environmental science, environmental engineering, or a similar discipline. This provides the foundational knowledge about the environment, ecosystems, and human impact.
- **Hands-on Experience:** After completing the bachelor's degree, gaining practical experience through internships or entry-level positions is valuable. This hands-on experience helps develop a better understanding of environmental issues.
- **Specialized Training:** Some environmental auditors pursue additional training or certifications in environmental auditing. These programs focus on specific skills and knowledge needed for auditing processes.
- **Master's Degree (Optional):** While not always required, some environmental auditors choose to pursue a master's degree for advanced knowledge and specialization in a specific area of environmental science or auditing.
- **Professional Certifications:** Obtaining professional certifications, such as Certified Environmental Auditor (CEA) or similar credentials, can enhance credibility and demonstrate expertise in environmental auditing.
- **Continuous Learning:** Environmental auditors often engage in continuous learning to stay updated on evolving environmental regulations, technologies, and best practices. This may involve attending workshops, seminars, or pursuing additional certifications.

Throughout this journey, individuals develop a combination of academic knowledge, practical skills, and professional certifications to become effective environmental auditors.

TRANSVERSAL

ECOLOGICAL PRODUCT DESIGNER

A day in the life:

Imagine a day in the life of an Ecological Product Designer—a visionary committed to crafting a sustainable future. These innovators merge creativity with environmental consciousness, striving to design products that minimize ecological impact while meeting consumer needs. They blend artistic flair with scientific knowledge, working across industries to redefine the concept of product design. Join their journey as they weave together aesthetics and sustainability, shaping a world where every creation is a step towards a greener tomorrow. 🌱🎨



Scan to see the 360° video



» Main tasks and features

Ecological Product Designers embark on a journey of creativity and environmental stewardship, balancing aesthetic appeal with ecological responsibility. Their main tasks encompass:

Eco-Innovation and Design Thinking	Harnessing design thinking principles, they conceptualize and develop innovative products that prioritize sustainability and environmental friendliness.
Material Selection and Lifecycle Analysis	Conducting thorough lifecycle analyses, they assess the environmental impact of materials and make informed choices to minimize ecological footprint throughout the product lifecycle.
Collaboration and Cross-Functional Teamwork	Collaborating with cross-functional teams, including engineers, marketers, and sustainability experts, they integrate environmental considerations into every stage of product development.
Sustainable Manufacturing Practices	Advocating for and implementing sustainable manufacturing practices, they work closely with production teams to reduce waste, energy consumption, and emissions during the manufacturing process.
Consumer Education and Awareness	Educating consumers about the environmental benefits of eco-friendly products, they play a crucial role in promoting sustainable consumption patterns and fostering a culture of environmental responsibility.
Continuous Innovation and Research	Remaining at the forefront of sustainability trends and technological advancements, they continually innovate and research new materials, processes, and design methodologies to push the boundaries of ecological product design.



Challenges

Balancing Aesthetics and Sustainability

Striking a balance between aesthetic appeal and environmental performance presents a constant challenge for Ecological Product Designers, requiring creative solutions that meet both criteria.

Sourcing Sustainable Materials

Identifying and sourcing sustainable materials that meet performance requirements while minimising environmental impact can be challenging in a market dominated by conventional materials.

Changing Consumer Behaviour

Educating consumers about the importance of sustainable products and fostering a shift towards conscious consumption poses a significant challenge in a society accustomed to disposable and resource-intensive lifestyles.

» Tools

Ecological Product Designers utilize a diverse set of tools and resources to create environmentally friendly products:

Life Cycle Assessment (LCA) Software:	Conducts comprehensive environmental assessments of products, helping designers make informed decisions about material selection and design choices.
Sustainable Material Databases	Provide access to information about sustainable materials, their properties, and environmental impact, aiding designers in selecting eco-friendly alternatives.
Design Software and Prototyping Tools	Utilized for product visualization, modelling, and prototyping, allowing designers to explore and refine concepts before finalizing designs.
Collaboration Platforms	Facilitate communication and collaboration among cross-functional teams, enabling seamless integration of sustainability considerations into the design process.
Computer SoftConsumer Education and Engagement Toolsware	Marketing materials, eco-labelling, and educational campaigns, to raise awareness and educate consumers about the environmental benefits of eco-friendly products.

» Subjects and skills that are important:

Becoming an Ecological Product Designer requires a blend of academic subjects and valuable skills:

School subjects:

- **Industrial Design or Product Design:** Provides foundational knowledge in design principles, aesthetics, and product development processes.
- **Environmental Science:** Offers insights into ecological principles, sustainability concepts, and environmental impact assessment methodologies.
- **Materials Science:** Explores the properties, characteristics, and environmental implications of various materials used in product design.
- **Marketing and Consumer Behaviour:** Helps understand consumer preferences, behaviour, and the psychology of sustainable consumption.
- **Sustainable Design Principles:** Focuses on principles of eco-design, cradle-to-cradle design, and circular economy concepts.

Skills

Here are also some skills that an environmental auditor should have:

- **Design Thinking and Creativity:** Ability to think creatively and innovatively, applying design thinking methodologies to develop sustainable product solutions.
- **Environmental Consciousness:** Deep understanding of environmental issues, sustainability principles, and ecological impact assessment methodologies.
- **Technical Proficiency:** Proficiency in design software, prototyping tools, and manufacturing processes, enabling effective product development.
- **Collaboration and Communication:** Strong collaboration and communication skills to work effectively with cross-functional teams and communicate sustainability concepts to stakeholders.
- **Analytical Thinking:** Analytical skills to conduct lifecycle assessments, analyse data, and make informed decisions about material selection and design choices.
- **Adaptability and Continuous Learning:** Adaptability to evolving sustainability trends, technologies, and consumer preferences, and a commitment to continuous learning and professional development.

Education Level

Embarking on a career as an Ecological Product Designer typically involves the following educational journey:

- **Graduation's Degree:** Begin with a Graduation's degree in Industrial Design, Product Design, or a related field, providing foundational knowledge in design principles and product development processes.
-
- **Master's Degree (Optional):** Consider pursuing a Master's degree in Sustainable Design, Environmental Design, or a related field to deepen expertise in ecological design principles, sustainability concepts, and advanced design methodologies.
-
- **Continuous Learning:** Engage in continuous learning and professional development opportunities to stay updated on emerging trends, technologies, and best practices in ecological product design.

In summary, becoming an Ecological Product Designer requires a blend of creativity, environmental consciousness, technical proficiency, and collaboration skills. By integrating sustainability principles into product design, these visionaries play a vital role in shaping a greener and more sustainable future for generations to come. 🌱🧠

TRANSVERSAL

GREEN MARKETING SPECIALIST

A day in the life:

Picture a day in the life of a Green Marketing Specialist—a champion of eco-friendly brands and sustainable initiatives. These innovators blend marketing savvy with environmental consciousness, spearheading campaigns that promote green products and eco-friendly practices. They're the creative minds behind strategies that not only drive business growth but also contribute to a healthier planet. Join their journey as they harness the power of marketing to inspire change, one sustainable message at a time. 🌱📺



Scan to see the 360° video



» Main tasks and features


Green Marketing Specialists lead the charge in crafting marketing strategies that prioritise sustainability and environmental responsibility. Their main tasks include:

Sustainable Brand Positioning:	Developing brand strategies that emphasize environmental stewardship and sustainability, aligning messaging with eco-conscious consumer values.
Green Product Promotion	Creating marketing campaigns to promote eco-friendly products and services, highlighting their environmental benefits and sustainable features.
Environmental Education Initiatives	Launching educational campaigns to raise awareness about environmental issues and encourage sustainable behaviours among consumers.
Cause-Related Marketing	Collaborating with environmental organizations and nonprofits to support environmental causes through marketing initiatives and corporate partnerships.
Green Packaging and Design	Working with product development teams to design eco-friendly packaging solutions and sustainable product designs that minimize environmental impact.
Ethical Sourcing and Supply Chain Transparency	Communicating transparently about ethical sourcing practices and supply chain transparency to build consumer trust and loyalty.
Sustainability Reporting and Communication	Compiling and communicating sustainability reports and initiatives to stakeholders, investors, and consumers to demonstrate commitment to environmental responsibility.
Digital Marketing for Sustainability	Leveraging digital marketing channels to amplify sustainability messages, engage eco-conscious consumers, and drive positive environmental impact.

Green Event Planning:	Organizing and promoting sustainable events and initiatives, incorporating eco-friendly practices and minimizing environmental footprint.
Market Research and Consumer Insights	Conducting market research to understand consumer preferences and behaviours related to sustainability, informing marketing strategies and campaign development.

Challenges

Greenwashing Prevention:	Navigating the challenge of greenwashing by ensuring that marketing messages and claims accurately reflect a brand's commitment to sustainability.
Consumer Education	Educating consumers about the environmental benefits of green products and sustainable practices to foster adoption and support for eco-friendly brands.
Changing Consumer Behaviours	Influencing consumer behaviours and preferences towards more sustainable choices in a market dominated by conventional products and practices.



Tools

Green Marketing Specialists utilize a variety of tools and resources to implement sustainable marketing practices:

Sustainability Certification Programs	Partnering with certification programs, such as the Forest Stewardship Council (FSC) or Climate Neutral Certified, to verify and communicate a brand's sustainability credentials.
Sustainability Reporting Frameworks	Following established sustainability reporting frameworks, such as the Global Reporting Initiative (GRI) or the Sustainability Accounting Standards Board (SASB), to standardize and communicate sustainability performance.
Green Marketing Campaign Software	Utilizing marketing campaign management software with sustainability-focused features to plan, execute, and measure the effectiveness of green marketing initiatives.
Sustainable Packaging Design Tools:	Using design software and tools to create eco-friendly packaging solutions that minimize environmental impact while meeting product protection and branding requirements.
Sustainable Packaging Design Tools	Conducting environmental impact assessments to evaluate the environmental footprint of marketing activities and identify opportunities for improvement.
Consumer Behaviour Analytics Platforms	Leveraging consumer behaviour analytics platforms to gain insights into eco-conscious consumer preferences and behaviours, informing marketing strategies and campaign targeting.

» Subjects and skills that are important:

Becoming a Green Marketing Specialist requires a blend of academic subjects and valuable skills:

School subjects:

- **Marketing:** Provides foundational knowledge in marketing principles, consumer behavior, and marketing strategy development.
- **Environmental Studies:** Offers insights into environmental issues, sustainability concepts, and environmental impact assessment methodologies.
- **Communications:** Develops strong communication skills for effectively conveying sustainability messages to diverse audiences.
- **Graphic Design:** Provides design skills for creating visually appealing marketing materials and sustainable packaging designs.
- **Business Ethics:** Explores ethical considerations in business practices, including corporate social responsibility and ethical marketing principles.
- **Digital Marketing:** Covers digital marketing strategies, social media marketing, and online advertising techniques for reaching eco-conscious consumers.

Skills

- **Sustainability Knowledge:** Deep understanding of environmental issues, sustainability principles, and eco-friendly practices relevant to marketing.
- **Creative Thinking:** Ability to think creatively and develop innovative marketing strategies that promote sustainability and resonate with eco-conscious consumers.
- **Communication Skills:** Strong communication skills to effectively convey sustainability messages and engage audiences through various marketing channels.
- **Data Analysis:** Analytical skills to analyse consumer behaviour data, market research findings, and sustainability metrics to inform marketing strategies and decision-making.
- **Collaboration:** Collaboration skills to work effectively with cross-functional teams, including product development, sales, and sustainability teams, to integrate sustainability into marketing initiatives.
- **Adaptability:** Adaptability to changing consumer preferences, market trends, and sustainability regulations, and the ability to adjust marketing strategies accordingly.

Education Level

Embarking on a career as a Green Marketing Specialist typically involves the following educational journey:

- **Graduation's Degree:** Begin with a Graduation's degree in Marketing, Environmental Studies, Communications, or a related field, providing foundational knowledge in marketing principles and sustainability concepts.
- **Master's Degree (Optional):** Consider pursuing a Master's degree in Sustainable Marketing, Environmental Management, or a related field to deepen expertise in green marketing strategies, sustainability communication, and environmental impact assessment.
- **Continuous Learning:** Engage in continuous learning and professional development opportunities to stay updated on emerging trends, technologies, and best practices in green marketing and sustainability.

In summary, becoming a Green Marketing Specialist requires a combination of creative thinking, sustainability knowledge, communication skills, and data analysis abilities. By promoting eco-friendly brands and sustainable practices, these marketing innovators play a vital role in driving positive environmental change and fostering a more sustainable future. 🌱📊

TRANSVERSAL

SUSTAINABLE SUPPLY CHAIN MANAGERS

A day in the life:

A Sustainable Supply Chain Manager's typical day involves overseeing environmentally friendly practices in the supply chain. They collaborate with suppliers, assess environmental impacts, and strategize sustainable solutions. This includes evaluating eco-friendly materials, optimizing logistics for reduced emissions, and ensuring ethical practices. Daily tasks may involve data analysis, supplier communication, and staying updated on sustainable trends. Their goal is to balance economic efficiency with environmental responsibility, contributing to a greener and socially responsible supply chain.



Scan to see the 360° video



» Main tasks and features

A Supply Chain Manager plays a crucial role in coordinating various aspects of product delivery from start to finish. Here are the main tasks they handle:

Planning and Forecasting	Develop strategies for efficient production by predicting demand, ensuring the right products are available when needed.
Sourcing and Procurement	Identify and choose suppliers, negotiate contracts, and ensure the quality and sustainability of materials.
Production Management	Oversee the manufacturing process, ensuring it's efficient, cost-effective, and adheres to environmental standards.
Logistics and Distribution	Organize the transportation of goods, optimize delivery routes, and reduce the environmental impact of product movement.
Inventory Control	Manage stock levels to prevent shortages or excess, minimizing waste and ensuring products are readily available.
Collaboration	Work closely with different departments, suppliers, and distributors to maintain effective communication and coordination.
Technology Integration	Implement and leverage technology solutions for better tracking, efficiency, and sustainability.
Continuous Improvement	Regularly assess and optimize the supply chain processes for increased efficiency, reduced costs, and enhanced sustainability.
Environmental Responsibility	Integrate eco-friendly practices into the supply chain, promoting sustainability and ethical sourcing.

A successful Supply Chain Manager ensures a smooth and sustainable flow of products, contributing to both business success and environmental responsibility.

» Challenges

A Supply Chain Manager faces several challenges in ensuring a smooth and efficient flow of products. Here are some key challenges:

Globalization	Dealing with supply chains that go across different countries can be hard because of different rules, cultures, and how things are moved around.
Demand Uncertainty	Figuring out how much of a product people will want is tough, and sometimes, unexpected changes can cause problems like having too much or not enough.
Cost Pressures	Trying to balance being efficient with costs while also being sustainable and ethical is tricky, especially when prices for things keep changing.
Technological Integration	Bringing in new technologies like IoT, blockchain, or AI into the supply chain can be complicated and needs investment.
Regulatory Compliance	Following different rules, especially in international trade, needs constant checking and changing how the supply chain works.
Cybersecurity Risks	With more things happening online, protecting the supply chain from cyber threats and making sure data is safe is important.
Customer Expectations:	Keeping up with what customers want, like faster deliveries and more information, needs always changing and coming up with new ideas.

Even with these challenges, good Supply Chain Managers are important for solving problems and making sure the supply chain is strong and sustainable.

Tools

A Supply Chain Manager uses various tools to make sure things run smoothly. Here are some of the tools they use:

Special software	Special computer programs, such as Supply Chain Software and Demand planning Software, help manage and track products as they move from one place to another or predict how much of a product will be needed in the future.
Inventory Management Tools	These tools help keep track of how much of a product is available and when more needs to be ordered.
Transportation Management Systems	These tools help plan and optimize the movement of products from one place to another, making sure they get to the right place at the right time.
Data Analytics Tools	Managers use these tools to analyze large amounts of data, helping them make better decisions and improve the efficiency of the supply chain.
Blockchain Technology	This secure and transparent technology helps trace and verify the journey of products in the supply chain.

» Subjects and skills that are important:

Becoming a Supply Chain Manager involves understanding various aspects of business and logistics. Here are the school subjects that can be helpful:

School subjects:

- **Mathematics:** Helps with analyzing data, making calculations, and managing inventory.
- **Business Studies:** Provides a foundation in business operations, management, and strategy.
- **Economics:** Understands economic principles, which are crucial for decision-making in the supply chain.
- **Technology and IT:** Familiarity with technology is essential for using various tools and software in supply chain management.
- **Statistics:** Aids in analyzing and interpreting data, which is vital for making informed decisions.
- **Geography:** Understanding the geographical aspects of supply chain routes and distribution can be beneficial.
- **Environmental Science:** With the growing emphasis on sustainability, knowledge of environmental practices is an asset.
- **Foreign Languages:** Knowing multiple languages can be advantageous, especially in global supply chain management.

By excelling in these subjects, students can build a strong foundation for a career in supply chain management.

Skills

A Supply Chain Manager needs a mix of skills to handle the complex world of supply chains. Here are the key skills:

- **Organization:** Keeping track of products, orders, and logistics requires excellent organizational skills.
- **Communication:** Effectively communicating with team members, suppliers, and other stakeholders is crucial for smooth operations.
- **Problem-Solving:** Quickly addressing and solving issues that arise in the supply chain is essential.
- **Analytical Thinking:** Using data to analyze trends, make informed decisions, and enhance overall efficiency.
- **Leadership:** Leading and guiding the team to ensure everyone is on the same page and working towards common goals.
- **Adaptability:** Being flexible and adaptable to handle changes and unexpected challenges in the supply chain.
- **Negotiation:** Negotiating with suppliers and other partners to secure favorable terms and agreements.
- **Tech Savviness:** Utilizing various tools and technologies to manage and optimize supply chain processes.
- **Strategic Planning:** Planning and strategizing for the long-term success and efficiency of the supply chain.

Education Level

The educational path to become a Supply Chain Manager typically involves the following steps:

- **Bachelor's Degree:** Start by earning a bachelor's degree in a relevant field such as business, supply chain management, logistics, or a related discipline.
- **Hands-on Experience:** After completing the bachelor's degree, gain practical experience through internships, entry-level positions, or projects related to supply chain management.
- **Specialized Training or Certifications (Optional):** Some individuals may choose to pursue additional training or certifications specific to supply chain management. This can include certifications in areas like logistics, procurement, or supply chain strategy.
- **Master's Degree (Optional):** While not always required, someone can choose to pursue a master's degree for advanced knowledge and specialization. An MBA (Master of Business Administration) with a focus on supply chain management is a common choice.
- **Continuous Learning:** Engage in continuous learning to stay updated on evolving technologies, industry trends, and best practices in supply chain management. This may involve attending workshops, seminars, and staying informed about advancements in the field.

The combination of education, practical experience, and continuous learning helps individuals build the skills and knowledge necessary to succeed in the dynamic and complex field of supply chain management.

TRANSVERSAL

ENVIRONMENTAL EDUCATOR

A day in the life:

Environmental educators play a vital role in conceptualizing and designing environmental education and communication programs aimed at diverse audiences. They collaborate closely with various stakeholders and organizations, providing technical direction to teams of environmental educators. A typical day may involve participating in the design of informative strategies, coordinating the development of educational materials, training professionals, promoting environmental initiatives, and evaluating campaign effectiveness.



Scan to see the 360° video





Main tasks and features

1. Participating in the design of informative, training, communication, and participation strategies.
2. Directing and coordinating the development of educational materials, campaigns, and strategies.
3. Training professionals who implement environmental education programs.
4. Promoting environmental initiatives and participatory processes.
5. Evaluating campaign effectiveness and introducing necessary changes or modifications.



Challenges

1. Ensuring effective communication and engagement with diverse target audiences.
2. Adapting strategies and materials to address specific environmental issues and community needs.
3. Managing time and resources efficiently to meet program objectives.
4. Overcoming resistance or skepticism towards environmental initiatives.
5. Keeping up with emerging trends and best practices in environmental education.

» Subjects and skills that are important:

Becoming an Environmental Educator involves understanding various aspects of business and logistics. Here are the school subjects that can be helpful for becoming an Environmental Educator:

School subjects:

- **Biology:** Learn about plants, animals, and how they all work together.
- **Environmental Sciences:** Study how the environment works and what we can do to protect it.
- **Chemistry:** Understand the chemicals and materials that affect our environment.
- **Pedagogy:** Learn how to teach others and make learning fun.
- **Journalism:** Practice writing and telling stories to share important information.
- **Communication and Audiovisual Journalism:** Learn how to use pictures and videos to spread messages.
- **Communication:** Get better at talking to others and sharing ideas.
- **Audiovisual and Multimedia:** Explore different ways to share information using technology.

Skills

- **Communication:** Good communication helps you explain tricky environmental ideas and get others excited about helping the planet.
- **Leadership:** Being a leader means inspiring your friends and classmates to join in on projects that help the environment and make a difference.
- **Flexibility and Change Management:** Learning to adapt to changes and switch gears in environmental projects is important because things can sometimes change unexpectedly.
- **Planning and Organization:** Planning and organizing your ideas and activities for environmental projects can make them more successful and fun to do.
- **Commitment to the Organization:** Being committed to the group means sticking with your environmental team and working together towards your goals.
- **Customer Orientation:** Thinking about what others need and like, and then creating activities and projects that match those needs, can make your environmental efforts more effective and enjoyable for everyone involved.

Education Level

Embarking on a career as an Environmental Educator involves a fulfilling educational path. Beginning with a solid foundation in relevant fields, you can progress towards advanced levels of expertise.

- **Bachelor's Degree:** in Environmental Biology, Environmental Sciences, Chemistry, Pedagogy, Journalism, Communication, or related fields.
- **Master's Degree (Optional):** Consider pursuing a Master's degree to further specialize and advance your career in Environmental Education. This additional education offers opportunities to delve deeper into areas such as educational leadership, curriculum development, or environmental communication.
- **Continuous Learning:** As the field of environmental education continues to evolve, ongoing learning is crucial. Engage in professional development opportunities, attend workshops, and stay updated on emerging trends to enhance your expertise and effectiveness as an Environmental Educator.

TRANSVERSAL

GREEN DATA ANALYST

A day in the life:

A Green Data Analyst is like an environmental detective who uses numbers and data to help companies be more eco-friendly. They look at information about how businesses use things like energy and materials and suggest ways to make these processes better for the planet.

It's like guiding companies to use resources wisely, create less waste, and be kinder to the environment.

The Green Data Analyst is a superhero who uses data to make our world a greener and better place!



Scan to see the 360° video



» Main tasks and features

Understanding the tasks of a Green Data Analyst can inspire students to explore the exciting world of data analysis with an environmental focus. Here's a brief overview:

Environmental Investigation	Green Data Analysts delve into data to examine how businesses impact the environment. They explore ways to make operations more sustainable.
Sustainable Advice	These analysts offer valuable suggestions to businesses on reducing waste, conserving energy, and adopting eco-friendly practices.
Use of numbers	Using mathematical skills, they create reports that showcase how businesses can be more efficient while minimizing their environmental footprint.
Use computers and digital programs	Leveraging computer tools and software, Green Data Analysts analyze data to discover opportunities for businesses to become greener.
Crafting Sustainable Strategies	They develop innovative ideas and strategies for businesses to adopt practices that are kinder to the planet.
Progress Monitoring	Green Data Analysts keep a close watch on how well businesses are implementing eco-friendly practices, offering guidance for continuous improvement.
Effective Communication	They excel at sharing findings and recommendations with businesses in a way that is easy to understand, ensuring actionable steps are taken.
Staying Ahead	Constantly staying updated on the latest environmental trends, technologies, and data analysis methods is crucial for Green Data Analysts to remain at the forefront of sustainable practices.

» Challenges

Let's delve into the challenges that Green Data Analysts might encounter in their important work for a sustainable future:

Data Diversity	Green Data Analysts may face challenges in handling diverse data types related to environmental impact. This includes data on energy usage, waste generation, and carbon emissions, which can be complex and varied.
Data Accuracy	Ensuring the accuracy of environmental data is crucial. Analysts need to navigate through datasets that may contain errors or inconsistencies, requiring meticulous attention to detail.
Limited Data Availability	Access to comprehensive environmental data is not always guaranteed. Analysts might encounter challenges in obtaining complete datasets, hindering their ability to provide thorough insights.
Interdisciplinary Knowledge	Green Data Analysts must bridge the gap between data analysis and environmental science. It can be challenging to possess expertise in both fields, requiring continuous learning and collaboration.
Industry Resistance	Encouraging businesses to adopt eco-friendly practices based on data analysis can face resistance. Analysts may need to overcome skepticism or reluctance from industries unfamiliar with sustainable practices.
Technological Advancements	Keeping pace with rapidly evolving data analysis technologies and tools is a challenge. Analysts need to stay updated to leverage the latest advancements for more accurate and efficient analyses.

Communicating Findings

Effectively communicating complex environmental data findings to non-experts can be challenging. Analysts must translate data insights into actionable recommendations that resonate with businesses and the public.

Balancing Priorities

Green Data Analysts often need to balance environmental goals with business objectives. Striking the right balance between sustainability and profitability requires careful consideration and strategic planning.

» Tools

Here are some of the key tools that a green data analyst uses in his practice:

Data Collectors

Green Data Analysts utilize specialized devices like air quality sensors, satellite technology, and drones to gather essential environmental information. These tools form the foundation of their work, allowing them to capture real-world data for analysis.

Analytics Software

Advanced software help them to sift through vast datasets, uncovering meaningful patterns and extracting crucial insights that drive informed decision-making.

Visualization Tools

Transforming complex data into accessible visuals is a key skill. Green Data Analysts employ visualization tools to create charts and graphs, effectively communicating their findings to diverse audiences in an understandable and compelling manner.

Programming Languages	Coding languages such as Python act as the language of communication for Green Data Analysts. Proficiency in programming empowers them to instruct computers on how to process and interpret environmental data.
Database Systems	Efficient storage and organization of data are paramount. Green Data Analysts rely on robust database systems to ensure quick and accessible retrieval of information whenever needed for analysis or reporting.
Machine Learning Tools	Machine learning tools enhance the analytical capabilities of Green Data Analysts. These tools enable them to predict trends and make their analyses more sophisticated over time.
GIS (Geographic Information System):	Managers use these tools to analyze large amounts of data, helping them make better decisions and improve the efficiency of the supply chain.
Cloud Computing	Flexibility and accessibility are key components of a Green Data Analyst's toolkit. By utilizing cloud computing, analysts can access data and tools from any location, fostering collaboration and efficiency.

» Subjects and skills that are important:

Becoming a Green Data Analyst involves a mix of subjects to build a strong foundation in both environmental science and data analysis.

Here are the key school subjects:

School subjects:

- **Mathematics:** Learn the basics of statistics and algebra. These skills are crucial for analyzing and interpreting data.
- **Environmental Science:** Understand the principles of environmental science to grasp the challenges and opportunities related to the environment.
- **Computer Science:** Learn programming languages like Python to manipulate and analyze environmental data.
- **Geography:** Develop skills in geographic information systems (GIS) to work with spatial data and maps.
- **Statistics:** Deepen your statistical knowledge to make sense of data patterns and trends.
- **Physics:** Understand the physical principles that govern environmental phenomena, helping in the analysis of environmental data.
- **Biology:** Gain insights into ecological systems and biological factors that impact the environment.
- **Data Science:** Acquire skills in data visualization, machine learning, and other data analysis techniques.
- **Chemistry:** Learn the basics of chemistry, especially if dealing with environmental data related to air or water quality.
- **Information Technology:** Understand IT concepts to effectively use databases and other information systems.

Skills

A Green Data Analyst needs a combination of technical, analytical, and environmental skills to excel in their role. Here are the key skills:

- **Data Analysis:** Proficient in analyzing large sets of environmental data, identifying patterns, trends, and insights.
- **Programming:** Strong programming skills, especially in languages like Python or R for data manipulation and analysis.
- **Statistical Knowledge:** Understanding statistical methods to interpret data accurately and draw meaningful conclusions.
- **GIS Skills:** Competence in Geographic Information Systems (GIS) for working with spatial data and maps.
- **Data Visualization:** Ability to create clear and compelling visualizations to communicate complex environmental data effectively.
- **Critical Thinking:** Strong analytical and critical thinking skills to approach environmental challenges with innovative solutions.
- **Environmental Awareness:** In-depth knowledge of environmental issues, policies, and sustainable practices.
- **Problem-Solving:** Skill in identifying environmental challenges and proposing data-driven solutions.
- **Communication:** Effective communication skills to convey findings and recommendations to diverse audiences, including non-technical stakeholders.
- **Collaboration:** Ability to work collaboratively with multidisciplinary teams, incorporating insights from various fields.
- **Attention to Detail:** Precision and attention to detail to ensure accuracy in data analysis and reporting.
- **Continuous Learning:** A mindset for continuous learning to stay updated on evolving environmental technologies and data analysis methods.

These skills, combined with a passion for environmental sustainability, make a successful Green Data Analyst.

Education Level

The educational journey of a Green Data Analyst typically involves the following steps:

- **Bachelor's Degree:** Start by earning a bachelor's degree in a relevant field such as data science, environmental science, or a related discipline. This provides foundational knowledge in both data analysis techniques and environmental science.
- **Specialized Training:** Some Green Data Analysts pursue additional training or certifications in specific areas related to environmental data analysis. These programs focus on developing advanced skills tailored to the unique challenges of working with environmental data.
- **Master's Degree (Optional):** While not always required, some professionals choose to pursue a master's degree for advanced knowledge and specialization. This can provide a deeper understanding of data analysis techniques and environmental science concepts.
- **Professional Certifications:** Obtain relevant certifications in data science and environmental analysis that enhance credibility and demonstrate expertise in the specific skills needed for the role.
- **Continuous Learning:** Engage in continuous learning to stay updated on evolving environmental technologies, data analysis methods, and best practices via workshops, seminars.

Throughout this educational journey, individuals develop a combination of academic knowledge, practical skills, and professional certifications to become effective Green Data Analysts.

TRANSVERSAL

SUSTAINABLE TOURISM MANAGER

A day in the life:

Step into the shoes of a Sustainable Tourism Manager—a guardian of nature and culture, dedicated to creating unforgettable experiences while preserving our planet. These stewards of travel oversee tourism operations with an eco-conscious approach, balancing economic prosperity with environmental and social responsibility. They weave sustainability into every aspect of tourism, from accommodation and transportation to community engagement and conservation efforts. Join their journey as they pave the way for responsible travel, ensuring that every adventure leaves a positive impact on both travellers and destinations alike. 🌿✈️



Scan to see the 360° video



» Main tasks and features

Sustainable Tourism Managers orchestrate a symphony of sustainability within the tourism industry, orchestrating initiatives that foster environmental conservation, cultural preservation, and community development. Their main tasks include:

Sustainable Destination Management	<p>Implementing strategies to promote sustainable tourism destinations, emphasizing conservation of natural resources, protection of cultural heritage, and equitable economic benefits for local communities.</p>
Eco-Friendly Accommodation and Facilities	<p>Collaborating with accommodations and tourism facilities to adopt eco-friendly practices, such as energy and water conservation, waste management, and sustainable building design.</p>
Responsible Tour Operations	<p>Partnering with tour operators and travel agencies to develop responsible travel itineraries that prioritize environmental education, wildlife conservation, and cultural immersion while minimizing negative impacts on local communities and ecosystems.</p>
Community Engagement and Empowerment	<p>Engaging local communities in tourism decision-making processes, empowering them to participate in tourism development initiatives, and ensuring that tourism benefits are equitably distributed among community members.</p>
Conservation and Biodiversity Protection	<p>Leading conservation efforts to protect biodiversity hotspots, natural habitats, and endangered species, collaborating with conservation organizations, government agencies, and local stakeholders.</p>
Sustainable Transportation Solutions	<p>Promoting eco-friendly transportation options, such as public transit, electric vehicles, and cycling infrastructure, to reduce carbon emissions and alleviate pressure on fragile ecosystems.</p>
Cultural Preservation and Heritage Tourism	<p>Supporting initiatives that preserve and promote indigenous cultures, traditions, and heritage sites, fostering cultural exchange and appreciation among travellers while respecting local customs and traditions.</p>
Sustainable Event Management	<p>Organizing and overseeing sustainable events and festivals that minimize environmental impact, promote local culture and heritage, and leave a positive legacy for host communities.</p>



Challenges

Balancing Conservation and Economic Development	Striking a balance between economic development through tourism and conservation of natural and cultural resources presents a significant challenge for Sustainable Tourism Managers, requiring innovative solutions that prioritize sustainability while supporting local livelihoods.
Overcoming Overtourism	Managing the impacts of overtourism in popular destinations, including overcrowding, environmental degradation, and cultural commodification, necessitates strategic planning and sustainable tourism management practices.
Fostering Stakeholder Collaboration	Engaging diverse stakeholders, including government agencies, local communities, tourism industry stakeholders, and conservation organizations, in collaborative efforts to promote sustainable tourism requires effective communication, negotiation, and consensus-building skills.

Tools

Sustainable Tourism Managers use a variety of tools and resources to implement sustainable tourism practices:

Destination Management Software	Using destination management software to plan and manage tourism activities, monitor visitor flows, and analyse tourism impacts on destinations.
Environmental Impact Assessment Tools	Conducting environmental impact assessments to evaluate the potential environmental consequences of tourism development projects and identify mitigation measures.
Community Engagement Platforms	Leveraging online platforms and community forums to engage local residents, businesses, and community organizations in tourism planning and decision-making processes.
Sustainable Tourism Guidelines and Best Practices	Implementing guidelines and best practices developed by organizations such as the Global Sustainable Tourism Council (GSTC) to ensure that tourism activities adhere to sustainability principles.
Sustainable Transportation Solutions	Promoting eco-friendly transportation options, such as electric vehicles, bicycle rentals, and public transit, to reduce carbon emissions and minimize the environmental impact of tourism transportation.

» Subjects and skills that are important:

Becoming a Sustainable Tourism Manager requires a combination of academic subjects and valuable skills:

School subjects:

- **Tourism Management:** Provides foundational knowledge in tourism principles, destination management, and tourism marketing strategies.
- **Environmental Science:** Offers insights into ecological principles, environmental conservation, and sustainability concepts relevant to tourism management.
- **Cultural Anthropology:** Explores cultural diversity, heritage preservation, and intercultural communication essential for managing cultural tourism and community engagement.
- **Community Development:** Provides understanding of community development principles, participatory approaches, and stakeholder engagement strategies relevant to sustainable tourism development.
- **Sustainable Development:** Focuses on principles of sustainable development, sustainable tourism planning, and responsible tourism practices.
- **Economics:** Provides insights into economic principles, tourism economics, and economic impacts of tourism on local communities and destinations.

Skills

- **Strategic Planning:** Ability to develop and implement strategic plans and policies for sustainable tourism development, considering economic, environmental, and social factors.
- **Stakeholder Engagement:** Strong interpersonal and communication skills to engage diverse stakeholders, including government agencies, local communities, tourism industry stakeholders, and conservation organizations.
- **Environmental Consciousness:** Deep understanding of environmental issues, conservation principles, and sustainable tourism practices.
- **Project Management:** Effective project management skills to plan, coordinate, and oversee sustainable tourism initiatives, including destination management, conservation projects, and community development programs.
- **Cultural Sensitivity:** Cultural sensitivity and intercultural communication skills to respect and appreciate diverse cultures, traditions, and customs encountered in tourism destinations.
- **Analytical Thinking:** Analytical skills to evaluate tourism impacts, conduct environmental assessments, and make informed decisions about sustainable tourism practices.
- **Adaptability:** Adaptability to changing circumstances and evolving tourism trends, including the ability to respond to emerging challenges and opportunities in the tourism industry.

Education Level

Embarking on a career as a Sustainable Tourism Manager typically involves the following educational journey:

- **Graduation's Degree:** Begin with a Graduation's degree in Tourism Management, Environmental Studies, Sustainable Development, or a related field, providing foundational knowledge in tourism principles and sustainability concepts.
- **Master's Degree (Optional):** Consider pursuing a Master's degree in Sustainable Tourism Management, Environmental Management, or a related field to deepen expertise in sustainable tourism planning, destination management, and conservation.
- **Continuous Learning:** Engage in continuous learning and professional development opportunities to stay updated on emerging trends, technologies, and best practices in sustainable tourism management.

In summary, becoming a Sustainable Tourism Manager requires a blend of strategic planning, stakeholder engagement, environmental consciousness, and cultural sensitivity. By promoting sustainable tourism practices, these guardians of travel play a vital role in ensuring that tourism contributes positively to environmental conservation, cultural preservation, and community development in destinations around the world. 🌿✈️

TRANSVERSAL

FOREST PROTECTION SPECIALIST

A day in the life:

Imagine a day in the life of a Forest Protection Specialist—a guardian of our planet's lungs, dedicated to preserving and conserving our precious forest ecosystems. These stewards of the woods work tirelessly to monitor, manage, and protect forests from threats such as deforestation, wildfires, and illegal logging. They spend their days in the heart of nature, conducting surveys, implementing conservation measures, and educating communities about the importance of forest conservation. Join their journey as they safeguard the biodiversity, ecological balance, and natural beauty of our forests for generations to come. 🌲



Scan to see the 360° video



» Main tasks and features

Forest Protection Specialists undertake a variety of tasks aimed at conserving and safeguarding forest ecosystems. Their main tasks include:

Forest Surveillance	Implementing wildfire prevention measures, conducting controlled burns, and coordinating firefighting efforts to minimize the risk of wildfires and protect forest ecosystems.
Wildfire Prevention and Management	Implementing wildfire prevention measures, conducting controlled burns, and coordinating firefighting efforts to minimize the risk of wildfires and protect forest ecosystems.
Biodiversity Conservation	Identifying and protecting endangered species, sensitive habitats, and biodiversity hotspots within forested areas to preserve ecological diversity.
Forest Restoration	Planning and implementing reforestation and afforestation projects to restore degraded forest lands, enhance ecosystem resilience, and mitigate the impacts of deforestation.
Community Outreach	Engaging with local communities, indigenous groups, and stakeholders to raise awareness about forest conservation, promote sustainable land use practices, and foster community participation in forest protection efforts.
Law Enforcement	Enforcing forest conservation laws and regulations, investigating illegal activities, and collaborating with law enforcement agencies to combat forest crimes and prosecute offenders.
Environmental Education	Providing environmental education programs, workshops, and outreach activities to schools, communities, and the public to increase awareness about the value of forests and the importance of conservation.

Forest Health Monitoring	Conducting forest health assessments, monitoring insect infestations, disease outbreaks, and other threats to forest health, and implementing mitigation measures to protect forest ecosystems.
Data Collection and Analysis	Collecting field data, conducting ecological surveys, and analysing environmental data to assess the health and status of forest ecosystems and inform conservation strategies.

Challenges

Illegal Logging and Poaching	Combating illegal logging, poaching, and other unauthorized activities that threaten forest ecosystems and biodiversity.
Climate Change	Addressing the impacts of climate change, such as increased frequency and intensity of wildfires, droughts, and pest outbreaks, on forest ecosystems.
Community Engagement	Engaging with local communities, indigenous groups, and stakeholders to build trust, address conflicts, and promote sustainable forest management practices.

Tools

Forest Protection Specialists use a variety of tools and equipment to monitor, manage, and protect forest ecosystems:

GPS Devices	Used for navigation, mapping, and recording coordinates during forest patrols and surveys.
Camera Traps	Deployed to monitor wildlife activity, detect illegal activities, and gather evidence for law enforcement purposes.
Firefighting Equipment	Including fire hoses, pumps, hand tools, and protective gear for wildfire suppression and management.
Drones	Utilized for aerial surveillance, forest mapping, and monitoring of remote and inaccessible areas.
GIS Software	Geographic information system software used for mapping, spatial analysis, and visualization of forest data.
Wildlife Monitoring Equipment	Such as binoculars, trail cameras, and acoustic recorders for monitoring wildlife populations and biodiversity in forested areas.

» Subjects and skills that are important:

Becoming a Forest Protection Specialist requires a blend of academic subjects and valuable skills:

School subjects:

- **Forestry:** Provides foundational knowledge in forest ecology, silviculture, forest management, and conservation biology.
- **Environmental Science:** Explores environmental principles, ecology, biodiversity conservation, and natural resource management relevant to forest protection.
- **Law Enforcement:** Covers legal frameworks, regulations, and enforcement mechanisms related to forest conservation and environmental protection.

Skills


- **Forest Ecology:** Understanding of forest ecosystems, plant and animal species, ecological processes, and habitat requirements.
- **Problem-Solving:** Ability to identify, assess, and address environmental threats and challenges facing forest ecosystems.
- **Communication:** Effective communication skills to engage with diverse stakeholders, convey complex information, and facilitate community outreach and education.
- **Fieldwork:** Proficiency in fieldwork techniques, data collection methods, and ecological surveys conducted in forested areas.
- **Collaboration:** Collaboration skills to work effectively with interdisciplinary teams, including foresters, biologists, law enforcement officers, and community leaders.

Education Level

Embarking on a career as a Forest Protection Specialist typically involves the following educational journey:

- **Graduation's Degree:** Begin with a Graduation's degree in Forestry, Environmental Science, Conservation Biology, or a related field, providing foundational knowledge in forest ecology and conservation.
- **Professional Training:** Obtain specialized training in forest protection, wildlife management, law enforcement, or related fields through workshops, certifications, or professional development programs.

In summary, becoming a Forest Protection Specialist requires a deep commitment to forest conservation, environmental stewardship, and community engagement. By safeguarding forest ecosystems, these guardians of the woods play a crucial role in preserving biodiversity, mitigating climate change, and ensuring the sustainability of our planet's forests. 🌲🛡️



TRANSVERSAL

CLIMATE RESILIENCE PLANNER

A day in the life:

A Climate Resilience Planner's typical day involves assessing, planning, and implementing strategies to help communities adapt to climate change. They analyze data, collaborate with stakeholders, and develop resilience projects. Field visits, meetings, and research are common, ensuring they address climate challenges and enhance community preparedness. Each day is dedicated to building resilience and safeguarding communities against the impacts of climate change.



Scan to see the 360° video



» Main tasks and features

A Climate Resilience Planner has important tasks to make communities strong against climate change. Here are their main jobs:

Assessment	They study data and information to understand how climate change might affect a place.
Planning	They create strategies and plans to help communities adapt and be ready for changes in the weather.
Implementation	They put their plans into action, working on projects to make communities more resilient.
Collaboration	They talk and work with different people and groups, like local communities, governments, and experts.
Research	They do research to find the best ways to protect communities from the impacts of climate change.
Field Visits	They go out to different places to see the effects of climate change and understand the local challenges.

Every day, Climate Resilience Planners focus on making communities safer and better prepared for the changing climate.

Challenges

A Climate Resilience Planner deals with tough challenges in their job to protect communities from climate change. Here are some hard things they face:

Climate Uncertainty	It's difficult to predict exactly how the climate will change, making planning for the future a challenge.
Limited Resources	Sometimes, there isn't enough money or materials to do all the projects needed to make a community resilient.
Community Engagement	Getting everyone in a community involved and on board with resilience plans can be hard.
Policy and Regulations	Dealing with complex rules and policies related to climate resilience can be challenging.
Global Cooperation	Climate change is a global issue, and working with different countries and organizations requires cooperation.
Public Awareness	Making people understand the importance of resilience and the actions needed can be a struggle.
Urgency	Climate change impacts are urgent, and planners often need to act quickly to protect communities.

Despite these challenges, Climate Resilience Planners work hard to find solutions and make communities more prepared for the changing climate.

Tools

A Climate Resilience Planner uses various tools to help communities adapt to climate change:

Geospatial Technology	Using maps and geographic information systems (GIS) to analyze and visualize climate-related data.
Simulation Models	Tools for simulating the impact of climate events on infrastructure and communities.
Specialised software: Decision-Support Systems	Softwares, such as Decision-support software that assists in making informed decisions based on climate data and projections, and Policy & Planning Software that helps to navigate and implement complex policies and plans related to climate resilience are valuable tools for a Climate resilience planner.
Communication Tools	Platforms for effectively communicating climate risks, adaptation strategies, and emergency plans to the public.
Monitoring and Evaluation Systems	Systems to track the progress of resilience projects and assess their effectiveness over time.



Subjects and skills that are important:

A climate resilience planner benefits from a combination of subjects that provide a strong foundation in environmental science, geography, planning, and community engagement. Here are key subjects that can be important for a climate resilience planner:

School subjects:

- **Environmental Science:** Learn about the natural world, climate systems, and the impacts of human activities on the environment.
- **Geography:** Understand the physical and social aspects of landscapes, including the distribution of natural resources and vulnerabilities to climate change.
- **Environmental Engineering:** Learn about engineering principles applied to environmental challenges, including infrastructure resilience.
- **Sustainability Studies:** Explore principles of sustainability and how they apply to community planning and resilience.

By excelling in these subjects, students can build a well-rounded foundation for a career in climate resilience planning.

Skills

Climate resilience planners play a crucial role in preparing communities for the impacts of climate change. Here are the key skills they should possess:

- **Environmental Knowledge:** A deep understanding of environmental science and climate systems is essential to assess potential risks and vulnerabilities.
- **Geospatial Skills:** Proficiency in using maps and geographic information systems (GIS) to analyze and visualize climate-related data for effective planning.
- **Engineering Expertise:** Knowledge of environmental engineering principles to design and implement infrastructure projects that enhance community resilience.
- **Communication Skills:** The ability to effectively communicate climate risks, adaptation strategies, and emergency plans to diverse audiences, including the public, policymakers, and stakeholders.
- **Community Engagement:** Skills in engaging with communities, gathering input, and building awareness to ensure that resilience plans reflect local needs and priorities.
- **Adaptability:** The capacity to adapt plans quickly in response to changing climate conditions and emerging challenges.
- **Critical Thinking:** Analytical and critical thinking skills to assess complex climate-related problems and propose innovative and effective solutions.
- **Project Management:** Strong project management skills to plan, implement, and monitor resilience projects effectively.
- **Collaboration:** The ability to work collaboratively with diverse stakeholders, including government agencies, non-profit organizations, and community members.

By possessing these skills, climate resilience planners can contribute significantly to building resilient communities in the face of climate change.

Education Level

Becoming a Climate Resilience Planner involves these steps:

- **Educational Foundation:** Earn a bachelor's degree in environmental science, geography, environmental engineering, or related fields. Gain knowledge in climate systems, sustainability, and community planning.
- **Hands-On Experience:** Seek internships or entry-level positions in environmental agencies, planning departments, or consulting firms. Gain practical experience in assessing climate risks and developing resilience strategies.
- **Advanced Education (Optional):** Consider pursuing a master's degree in environmental planning, climate science, or a related field for advanced knowledge.
- **Certifications (Optional):** Obtain certifications related to climate resilience planning to enhance credibility and expertise.
- **Continuous Learning:** Stay committed to continuous learning, adapting strategies based on evolving climate challenges and solutions.

TRANSVERSAL

ENVIRONMENTAL MANAGER

A day in the life:

An environmental manager is a key professional responsible for overseeing environmental management within a company at all levels. Their typical day involves implementing management systems, conducting environmental assessments, ensuring compliance with laws and regulations, managing risks and impacts, and developing strategies for environmental improvement.



Scan to see the 360° video





Main tasks and features

- Developing and implementing environmental policies, strategies, and plans.
- Conducting environmental audits, assessments, and inspections.
- Ensuring compliance with environmental laws and regulations.
- Managing environmental risks and impacts.
- Implementing and evaluating environmental management systems and programs.
- Planning and coordinating environmental projects and initiatives.
- Providing environmental training to staff and stakeholders.
- Coordinating environmental issues with internal and external parties.
- Reporting on environmental performance.
- Executing and monitoring compliance with programs to achieve set objectives.
- Developing strategic frameworks aimed at environmental improvement and increased business competitiveness.



Challenges

- Balancing environmental protection with business objectives.
- Navigating complex and evolving environmental regulations.
- Managing stakeholder expectations and concerns.
- Integrating environmental considerations into business decisions.
- Ensuring effective communication and collaboration across departments.



Subjects and skills that are important:

Becoming an Environmental Educator involves understanding various aspects of business and logistics. Here are the school subjects that can be helpful for becoming an Environmental Educator:

School subjects:

- **Science (especially environmental science)**
- **Business Studies**
- **Geography**
- **Technology**

Skills

- Leadership and project management skills.
- Effective communication skills.
- Negotiation and teamwork skills.
- Proficiency in environmental laws, regulations, and standards.
- Knowledge of environmental tools, techniques, and software.

Education Level

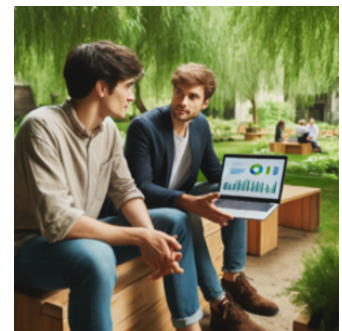
- High School Diploma or Equivalent
 - Vocational Training or Certificate Programs in environmental systems.
 - Bachelor's degree in fields like environmental science, environmental engineering, Business administration, etc.
 - Industry Certifications in environmental management, auditing, or compliance.
-

REUSE

CIRCULAR ECONOMY CONSULTANT

A day in the life:

Imagine a day in the life of a Circular Economy Consultant as a cool sustainability quest! They begin by exploring new green ideas, then meet with businesses to create eco-friendly plans and visit places to check how things work. Back at their base, they team up with others, look at data, and make smart plans. They also teach others, make new friends, and write down great ideas to help our planet stay healthy and happy!



Scan to see the 360° video





Main tasks and features

A Circular Economy Consultant has an exciting to-do list:

- Look for new eco-friendly ideas and innovations.
- Meet with companies to help them create sustainable plans.
- Explore different places to see how things work and find ways to make them more eco-friendly.
- Work with a team to analyze data, brainstorm ideas, and create smart plans.
- Teach others about the benefits of a circular economy and how to be more sustainable.
- Make new friends in the sustainability community and share ideas.
- Write down fantastic ideas and plans to help businesses and the planet thrive.

» Challenges

Among the challenges a circular economy consultant faces are:

Difficulties in convincing	companies to try a new way of doing things that helps the environment. Some companies might not be ready for this change.
Lack of awareness and understanding about circular economy concepts	among clients and stakeholders.
Resistance to Change	Some companies or people might not want to change the way they've always done things because they're worried it could be too expensive or cause problems.
Making new ideas fit with existing rules.	Aligning proposed circular economy strategies with existing policies, rules and regulations can be a complex task.
Figuring out complicated systems	A CE consultant works with big systems and needs to figure out how to make everything work together.
Need for continuous learning	about new ways to help the environment.

Despite these challenges, Circular Economy Consultants play a vital role in fostering a more sustainable and environmentally friendly future.

Tools

Circular economy consultants use a variety of tools to help businesses become more sustainable. Here are some of them:

- Life Cycle Assessment (LCA) Software
- Material Flow Analysis (MFA).
- Workshops
- Supply Chain Mapping Tools
- Sustainability Reporting Software
- Nature-Friendly System Manager
- Online Platforms

Subjects and skills that are important:

School subjects:

- Environmental Science
- Economics
- Business Studies
- Design and Technology
- Geography
- Mathematics
- Technology and IT

Skills

A Circular Economy Consultant needs a range of skills to excel in his/her role. Here are some of them:

- **Analytical Skills**
- **Communication**
- **Problem-Solving**
- **Collaboration**
- **Innovation**
- **Environmental Awareness**
- **Critical Thinking**
- **Attention to Detail**
- **Continuous Learning**
- **Technical skills**
- **Ethical Decision-Making**

Education Level

- **Bachelor's Degree in fields like environmental science, sustainability, business, or related disciplines for foundational knowledge.**
- **Hands-on training**
- **Specialized Training or Certifications**
- **Master's Degree (Optional) in sustainable practices or circular economy strategies**
- **Continuous Learning**

GREEN FOOD

ORGANIC FARMER

A day in the life:

Envision a day in the life of an Organic Farmer—a steward of the land dedicated to sustainable agriculture and environmental preservation. These guardians of the soil cultivate organic produce using natural methods and practices that promote biodiversity, soil health, and ecosystem resilience. They rise with the sun, tending to crops, nurturing livestock, and fostering a harmonious relationship between humanity and nature. Join their journey as they cultivate a healthier planet, one organic harvest at a time. 🌱🚜



Scan to see the 360° video



» Main tasks and features

Organic Farmers engage in a variety of tasks aimed at sustainable agriculture and organic food production. Their main tasks include:

Crop Cultivation	Planting, tending, and harvesting a diverse range of organic crops, including fruits, vegetables, grains, and herbs, using natural farming methods and techniques.
Soil Health Management	Implementing soil conservation practices, such as crop rotation, cover cropping, and composting, to enhance soil fertility, structure, and microbial diversity.
Pest and Disease Management	Employing integrated pest management (IPM) strategies, companion planting, and natural pest deterrents to minimize reliance on synthetic pesticides and herbicides.
Livestock Husbandry	Raising and caring for organic livestock, such as cattle, poultry, goats, and pigs, in accordance with organic animal welfare standards and pasture-based management practices.
Organic Certification	Adhering to organic farming regulations and obtaining organic certification from accredited certifying agencies to ensure compliance with organic standards and practices.
Sustainable Resource Management	Utilizing water conservation measures, renewable energy sources, and efficient irrigation systems to minimize environmental impact and promote resource efficiency.
Biodiversity Conservation	Preserving and enhancing on-farm biodiversity through the preservation of native habitats, the cultivation of heirloom varieties, and the promotion of pollinator-friendly practices.

Farm-to-Table Marketing

Direct marketing of organic produce through farmers' markets, community-supported agriculture (CSA) programs, and farm-to-table initiatives to connect consumers with fresh, locally grown organic food.

Community Engagement

Engaging with the local community through educational workshops, farm tours, and outreach programs to promote organic farming principles and sustainable food systems.

» Challenges

Market Competition

Navigating a competitive market dominated by conventional agriculture and industrial food production systems.

Weather Variability

Managing the impact of unpredictable weather patterns, climate change, and extreme weather events on crop yields and farm productivity.

Labour Intensity

Addressing the labour-intensive nature of organic farming, including manual weed control, hand harvesting, and animal husbandry tasks.



Tools

Organic Farmers utilize a variety of tools and equipment to support sustainable agriculture and organic food production:

Hand Tools	Including shovels, hoes, pruners, and hand weeders for manual cultivation, planting, and harvesting.
Tractors and Implements	Used for soil preparation, planting, and cultivation of organic crops, including plows, cultivators, and seeders.
Organic Inputs	Such as compost, organic fertilizers, and natural pest control products, used to enhance soil fertility and manage pests and diseases.
Livestock Management Equipment	Including fencing, watering systems, and livestock housing for the care and management of organic livestock.

» Subjects and skills that are important:

Becoming an Organic Farmer requires a blend of agricultural knowledge, practical skills, and environmental stewardship:

School subjects:

- **Agricultural Science:** Provides foundational knowledge in agronomy, soil science, crop production, and livestock management.
- **Environmental Science:** Explores environmental principles, ecology, conservation biology, and sustainable agriculture practices.
- **Business Management:** Develops skills in farm management, budgeting, marketing, and business planning for sustainable agricultural enterprises.

Skills

- **Agricultural Expertise:** Proficiency in organic farming practices, crop production techniques, and livestock management methods relevant to sustainable agriculture.
- **Problem-Solving:** Ability to diagnose and address agronomic challenges, pest and disease issues, and environmental concerns in organic farming systems.
- **Adaptability:** Flexibility to adapt farming practices to changing environmental conditions, market demands, and regulatory requirements.
- **Entrepreneurship:** Business acumen and entrepreneurial skills to manage a successful organic farming operation, including marketing, sales, and financial management.
- **Passion for Sustainability:** Commitment to environmental stewardship, biodiversity conservation, and sustainable food production.

Education Level

Embarking on a career as an Organic Farmer typically involves hands-on experience and continuous learning:

- **Hands-On Experience:** Gain practical experience through internships, apprenticeships, or working on organic farms to develop essential farming skills and knowledge.
- **Continuing Education:** Participate in workshops, training programs, and continuing education courses in organic farming, sustainable agriculture, and environmental stewardship.

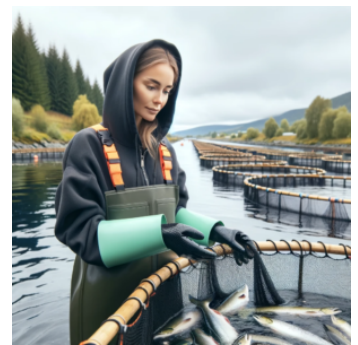
In summary, becoming an Organic Farmer requires a deep commitment to sustainable agriculture, environmental stewardship, and organic food production. By practicing organic farming methods and promoting sustainable food systems, these stewards of the land play a vital role in cultivating a healthier planet and nourishing communities with fresh, locally grown organic food. 🌱🚜

WATER

AQUACULTURE OPERATIONS MANAGER

A day in the life:

Within an aquaculture facility, an Aquaculture operations manager is responsible for performing tasks related to the proper development of animal and plant farms (fish, mollusks and/or crustaceans, algae) and managing their planning, production, harvesting and marketing. They also plan, organize and supervise facilities, machinery, finances and personnel. Aquaculture facilities can be in saltwater (marine) or freshwater (inland) and in open or closed systems.



Scan to see the 360° video



» Main tasks and features

- Plan the production schedule based on demand and the characteristics of the algae production cycle and climate.
- Monitor and/or modify conditions (temperature, oxygenation, salinity, etc.) of the aquaculture facility in order to adapt them to the needs of the production cycle of the stock at any given time.
- Search for pathogens, identify them and apply the pertinent treatments to eradicate them.
- Carry out the necessary stock transfers within the facility and classify the different stages of the production cycle (size, weight, duration) to standardize quality.
- Manage and supervise feeding schedules and implement it for each product and at each stage of the growth cycle.
- Supervise, implement and/or coordinate the maintenance of the facilities and keep the farm emissions within the limits of the environmental regulations in force.
- Elaborate daily work schedules and activities and ensure their compliance. Design and plan the training of farm personnel.
- Supervise farm inventories.
- Oversee and set the budget.
- Manage the sale of the harvested product and ensure that the final product meets the relevant quality standards.
- Researching and developing new production methods and new varieties.

» Challenges

Regulations and compliance	Aquaculture includes rules and laws on environmental, health and food safety regulations.
Natural resource management	Aquaculture depends on natural resources such as water and soil. Sustainable management of these resources is critical to the long-term success of aquaculture operations.
Animal health	The health and care of fish and other aquatic organisms are critical to the success of an aquaculture operation.
Water quality	Water quality is a key factor in aquaculture, as it affects animal health and the quality of the final product.
Market and competitiveness	Aquaculture is a highly competitive industry, and those responsible for aquaculture operations must be aware of market trends, consumer demand, and competition from other producers.
Innovation and technology	The aquaculture industry is constantly evolving, with new technologies and practices emerging that can improve the efficiency and sustainability of operations. However, adopting these innovations can be costly and require additional resources.

Tools

Circular economy consultants use a variety of tools to help businesses become more sustainable. Here are some of them:

- Life Cycle Assessment (LCA) Software
- Material Flow Analysis (MFA).
- Workshops
- Supply Chain Mapping Tools
- Sustainability Reporting Software
- Nature-Friendly System Manager
- Online Platforms

Subjects and skills that are important:

School subjects:

- Environmental Science
- Economics
- Business Studies
- Design and Technology
- Geography
- Mathematics
- Technology and IT

Skills

A Circular Economy Consultant needs a range of skills to excel in his/her role. Here are some of them:

- **Analytical Skills**
- **Communication**
- **Problem-Solving**
- **Collaboration**
- **Innovation**
- **Environmental Awareness**
- **Critical Thinking**
- **Attention to Detail**
- **Continuous Learning**
- **Technical skills**
- **Ethical Decision-Making**

Education Level

- **Bachelor's Degree in fields like environmental science, sustainability, business, or related disciplines for foundational knowledge.**
- **Hands-on training**
- **Specialized Training or Certifications**
- **Master's Degree (Optional) in sustainable practices or circular economy strategies**
- **Continuous Learning**

MOBILITY

MOBILITY SPECIALIST IN COLLECTIVE TRANSPORT

A day in the life:

Mobility specialists in public transport are like the conductors of the transportation orchestra, ensuring that buses, trains, and other vehicles move smoothly and efficiently. They spend their days planning routes, managing vehicle fleets, and responding to any issues that may arise during transportation operations.



Scan to see the 360° video



» Main tasks and features

- Defining routes, setting stops, and ensuring adherence to schedules.
- Supervising the condition of vehicle fleets and planning their usage based on service needs.
- Planning and implementing route changes due to incidents, such as breakdowns or accidents.
- Responding promptly to service incidents while prioritizing user safety.
- Organizing information dissemination systems for timetables and service conditions.
- Collecting and analyzing service data to improve quality and efficiency.
- Organizing user satisfaction feedback systems to identify areas for improvement.
- Generating reports on service operation and proposing improvements for cost optimization and service quality enhancement.

» Challenges

- Ensuring that transportation services run smoothly despite fluctuations in demand.
- Managing vehicle fleets effectively to meet service needs while optimizing resources.
- Addressing and resolving service incidents promptly to minimize disruptions.
- Maintaining high service quality standards to meet customer expectations.
- Adapting to changes in routes or service conditions due to unforeseen incidents or events.

» Subjects and skills that are important:

School subjects:

- **Mathematics**
- **Geography**
- **Engineering**
- **Transportation Management**
- **Data Analysis**

Skills

- **Planning and organization:** Ability to plan routes, schedules, and logistics efficiently.
- **Communication:** Effective communication skills for coordinating with stakeholders and disseminating information.
- **Problem-solving:** Capacity to address service incidents and resolve challenges quickly and effectively.
- **Data analysis:** Proficiency in analyzing service data to identify trends and areas for improvement.
- **Customer service:** Dedication to ensuring a high level of customer satisfaction and service quality.

Education Level

- High School Diploma or Equivalent
 - Bachelor's degree in fields like industrial technology engineering
 - Industry Certifications
 - Continuous Learning and development
-

RECYCLING, NON RECYCLABLE WASTE

WASTE MANAGER

A day in the life:

Imagine a day in the life of a Sustainability Hero—a young champion dedicated to making our world greener and cleaner. These heroes oversee waste management, ensuring it's efficient and environmentally responsible. They plan, coordinate, and supervise waste disposal and recycling activities, playing a crucial role in creating a more sustainable future. Join their journey, making a difference with every action for a healthier planet—one piece of waste at a time! 🌍♻️



Scan to see the 360° video



» Main tasks and features

A Waste Management Specialist has a super cool job that involves a bit of everything! They're similar to waste management experts, adept at strategic planning, hands-on execution, and deeply committed to environmental sustainability. Their main gig includes a bunch of tasks aimed at handling waste in the best way possible, following the rules, and making sure everyone's on board with saving the planet. 🌍♻️

Big Brain Planning and Teamwork:	They excel as strategic planners, devising intricate strategies for the optimal management of waste. Collaborating seamlessly with others, they ensure the seamless execution of waste management operations, spanning from trash collection to processing, with utmost efficiency.
Super Detective Waste Analysis	They visit places to check out how much and what kind of trash is hanging around. Then, they use this info to come up with smart plans to manage waste, making sure it's good for the planet.
Rule Followers (But the Good Kind!)	They serve as environmental compliance experts, diligently overseeing adherence to waste management regulations and ensuring full legal compliance. Their meticulous attention to detail ensures that all activities are conducted in strict accordance with environmental laws.
System Creator and Upgrader	Ever think about who creates those waste management systems? Yep, that's them! They design, put into action, and keep making things better. They're into all the high-tech recycling and turning waste into energy stuff.
Teacher Vibes	They function as waste management educators, imparting knowledge to a wide range of stakeholders, including businesses and schools, on waste reduction strategies, proper waste sorting techniques, and the critical importance of recycling for environmental sustainability.

Number Crunching and Reporting:	Imagine them as waste scientists! They diligently monitor the progress of waste management initiatives, meticulously analysing data to evaluate the effectiveness of their strategies.
Team Player and Friend to the Planet	They collaborate with governmental entities, environmental organizations, and businesses to ensure collective commitment to environmentally responsible waste management practices.
Quick Fixer and Solution Whiz	In the event of unforeseen incidents, such as significant spills, they promptly address the situation by devising immediate action plans to restore environmental integrity and ensure safety.
Always Learning and Getting Better	They possess a deep expertise in waste management, continually exploring innovative technologies and concepts to enhance the efficiency and effectiveness of waste management practices. Their unwavering dedication lies in the ongoing pursuit of maintaining environmental cleanliness and fostering sustainable happiness on our planet.

Being a Waste Management Specialist is like having a super important job where you're not just dealing with trash but making sure our world stays awesome for the long haul! 🌍





Challenges

Rulebook Maze	Mastering the intricacies of waste management regulations requires keen adaptability, as the landscape of rules continually evolves.
Tech Takeover	As technology advances rapidly, Waste Management Specialists must master intricate systems and sophisticated sorting methods, striking a delicate balance between technical prowess and real-world functionality.
Winning Hearts for the Planet	Waste Management Specialists act as eco-influencers, educating and engaging communities to reduce waste and adopt responsible disposal practices. ♻️

Tools



Waste Management Specialists have a bunch of cool tools up their sleeves to make everything run smoothly and be super eco-friendly. Check out their toolkit:

Automated Sorting Systems	Use fancy sensors and robots to separate recyclables from regular trash, making sure we get the most out of our recycling efforts.
Geographic Information System	Using technology, specialists map out where waste is hanging out. This helps them plan smart routes for collecting trash and figure out the best spots for waste facilities.
Environmental Impact Assessment Software	These professionals serve as environmental detectives, utilizing tools such as Life Cycle Assessment to analyse the environmental impact of waste management plans comprehensively. It involves examining the entire life cycle of products to understand their environmental footprint.
Waste-to-Energy Technologies	These technologies, such as incineration with energy recovery, work wonders for waste management. They effectively convert waste into energy, providing a sustainable solution that gives waste a second life.
Regulatory Compliance Software	Using special software, specialists make sure everything follows the rules. It's like having a protector for legal stuff, making sure waste management is top-notch.

**Community
Engagement
Platforms**

Through online platforms, specialists engage with the community, disseminate information, and gather feedback. It's akin to hosting a substantial online gathering to actively involve everyone in the discourse surrounding waste management.

**Waste Modelling
Software**

These specialists function as prognosticators for waste management, utilizing simulation tools to anticipate potential scenarios, identify obstacles, and strategize for the future  

» Subjects and skills that are important:

Aspire to become a Waste Management Specialist, require a blend of academic subjects and valuable skills.

School subjects:

- **Science:** Serves as your compass in navigating ecosystems, pollution, and humanity's environmental footprint.
- **Chemistry:** Gain insight into waste composition! Chemistry equips you to understand the makeup of various waste types, especially hazardous materials.
- **Geography:** Harness geographical data for waste management! Geography aids in identifying waste hotspots, optimizing collection routes, and establishing waste infrastructure.
- **Environmental Engineering:** Explore innovative waste treatment methods! Environmental engineering delves into recycling, composting, and other sustainable waste management techniques.
- **Statistics or Data Science:** Statistical and data science skills enable you to analyse waste-related data effectively, informing evidence-based decision-making.
- **Environmental Law and Policy:** Provide insights into the legal framework governing waste management practices.
- **Community Communicators:** Courses in communication or community development empower to effectively convey waste management concepts to diverse audiences.

Skills

- **Analytical Thinking:** Sharp analytical skills are essential for tackling waste challenges and devising effective solutions.
- **Technical Proficiency:** Proficiency in technology, waste monitoring systems, and data tools is vital for optimizing waste management processes.
- **Adaptability:** The waste management landscape is dynamic, so being adaptable and open to new approaches is key.
- **Project Management:** With numerous tasks at hand, strong organizational and project management abilities are indispensable.
- **Teamwork Skills:** Engage with various stakeholders, necessitating strong teamwork and relationship-building skills.
- **Environmental Ethics:** Upholding environmental ethics and prioritizing sustainable waste management practices is fundamental to your role. 🌱♻️

Education Level

Embarking on a career in Waste Management entails an enriching educational journey. Starting with foundational knowledge in environmental science and progressing to advanced levels of expertise, here's a roadmap for your educational adventure in waste management.

- **Bachelor's Degree:** Begin educational journey with a Bachelor's degree in Environmental Science, Environmental Engineering, Geography, or a related field. This foundational program will provide you with essential knowledge and skills in waste management.
- **Master's Degree (Optional):** Consider pursuing a Master's degree to further specialize and advance career in Waste Management. This additional education offers opportunities to become an expert or leader in the field, focusing on areas such as environmental policy, sustainable practices, or advanced waste management technologies.
- **Keep Learning and Growing:** As waste management practices evolve continuously, it's essential to continuously enhance skills. Participate in workshops, obtain certifications, and stay updated on emerging technologies to elevate your expertise in the field.

In summary, a combination of foundational knowledge in environmental science and related fields, coupled with practical skills in data analysis, effective communication, and adaptability, will position you as the indispensable Waste Management professional. Continuous learning is key to staying ahead in this ever-evolving journey! 🎓🌍

Green skills 5

Green skills help us protect our planet and make the world a better place to live in. They can be Knowledge, abilities, values and attitudes and include:

- **Transversal skills:** These are skills that everyone needs to have, like thinking about how our actions affect the environment and making choices that help keep it healthy. These skills are important no matter what job you have or what you do in life.
- **Specific skills:** These are skills that help us do specific tasks to protect the environment, like using less energy and water, recycling, and taking care of plants and animals. They're like tools in our toolbox that we can use to make a difference
- **Highly specialized skills:** These are special skills that some people have to develop and use advanced green technologies, like making solar panels, cleaning up pollution, or designing new ways to use renewable energy sources. These skills help us come up with cool inventions that help the environment in big ways.

This definition is adapted from “ Skills for the green economy” from Cedefop, Glossary. Terminology of European education and training policy, (accessed 05/2024).

In the VRGreenAdventure Survey of Companies, Skills for the future like design thinking, creativity, adaptability, resilience, empathy are considered important by more than 95% of organizations surveyed. The VRGreenAdventure survey also revealed the importance of Engineering and technical skills.

Engineering and technical skills are used by engineers and technicians to create amazing things. These skills include:

- **Design Skills:** This is all about coming up with awesome ideas and plans for new inventions, like designing bridges, buildings, or cool gadgets. It's like being a superhero inventor!
- **Construction Skills:** These are the hands-on abilities to actually build and make things, whether it's using tools to assemble parts or putting together structures like houses or robots. It's like being a master builder!
- **Assessment Skills:** This is about checking and testing to make sure everything works perfectly and is safe to use. It's like being a detective who investigates to solve problems and make sure everything is just right.

Green Skills also include Science Skills, Operation Management Skills and Monitoring Skills:

- **Science Skills:** These are skills based on big areas of knowledge, like physics and biology. They're super important for coming up with new ideas and innovations. People with science skills are in high demand because they help with every step of making things better for the environment, like in the energy industry or in researching new materials.
 - **Operation Management Skills:** This is all about making sure everything runs smoothly in a company or organization that's focused on being green. It involves knowing how to organize things well, manage resources efficiently, and work with other people to make sure everything is done right. People with these skills help companies become more eco-friendly and sustainable.
 - **Monitoring Skills:** These skills are all about making sure that businesses are following the rules and standards to protect the environment. People with monitoring skills check to see if companies are doing things the right way and following the laws. They might work as environmental inspectors, nuclear technicians, or legal assistants, making sure everything is safe and legal.
-

Green ways of working 6

In recent years, we have witnessed a radical transformation in the ways we work. Technology, cultural shifts and globalization have given rise to new ways of working that not only challenge traditional work structures, but also offer unprecedented opportunities for innovation, flexibility and productivity while having a green impact.

Here are some of these new ways of working that are shaping the present and future of the workplace.

1. Remote Working and Teleworking

Remote work, also known as teleworking, has become a prevalent modality, especially in the wake of the COVID-19 pandemic. This model allows workers to perform their duties from any location with Internet access, eliminating the need to travel to a physical office. The advantages of remote working are manifold:

- **Flexibility:** Workers can arrange their schedules to suit their personal and professional needs, often resulting in greater satisfaction and work-life balance.
- **Cost savings:** Both companies and employees can save on transport costs, office rent and other expenses related to face-to-face work.
- **Access to global talent:** Companies can hire the best talent regardless of their geographical location, thus expanding their chances of finding highly qualified professionals.

Despite its benefits, remote working also presents challenges, such as the need to effectively manage teams remotely, maintain team cohesion and ensure information security.

Among the most prominent challenges are:

- 1. Social isolation:** lack of face-to-face interaction can lead to loneliness and disconnection among employees, affecting their morale and sense of belonging.
- 2. Communication and Collaboration Difficulties:** Lack of physical contact complicates coordination and can lead to misunderstandings, making project management difficult.
- 3. Time Management and Self-Discipline:** Working from home requires great self-discipline to avoid distractions and maintain productivity.
- 4. Access to Technology and Connectivity:** Lack of adequate technological infrastructure and connectivity problems can hinder work performance.
- 5. Information Security:** Remote work increases the risk of security breaches and cyber-attacks, requiring robust data protection measures.
- 6. Performance Monitoring and Evaluation:** Evaluating performance without direct supervision can be complex, demanding clear metrics and specific objectives.
- 7. Work-Life Balance:** Lack of physical separation between home and work can lead to an imbalance, increasing stress and affecting mental health.
- 8. Unequal Access and Opportunities:** Not all employees have the same conditions for working from home, which can lead to inequalities in performance and opportunities.
- 9. Cultural and Corporate Identity Challenges:** Maintaining a strong corporate culture and sense of community can be difficult without face-to-face interactions.
- 10. Impact on Innovation and Creativity:** Lack of spontaneous collaboration can limit the generation of innovative and creative ideas.

To address these challenges, organizations must invest in technology, establish clear policies, foster an inclusive culture and promote a healthy work-life balance.

2. Hybrid Work

The hybrid work model combines the best of both worlds: it allows workers to split their time between remote and in-office work. This approach offers flexibility and autonomy, while maintaining a sense of community and in-person collaboration. Key features of hybrid working include:

- **Autonomy:** Employees can choose where and when they work, based on their needs and those of the business.
- **Enhanced collaboration:** Office days can be used for meetings and team activities that require face-to-face interaction.
- **Reduced commuting fatigue:** By reducing the frequency of daily commuting, employees can save time and reduce stress.

The main challenge of hybrid working lies in effectively coordinating the days when employees will be present in the office and in managing resources and opportunities equitably between those who work remotely and those who work in the office.

3. Gig Economy and Freelance Work

The gig economy refers to a labor market characterized by the prevalence of temporary contracts and freelance work. This model has gained popularity due to the flexibility it offers both companies and workers. Some key aspects of the gig economy include:

- **Flexibility in hiring:** Companies can hire freelancers for specific projects without the need for long-term commitments.
- **Income diversification:** Workers can take on several freelance jobs at the same time, diversifying their sources of income.
- **Innovation and specialization:** Freelancers often specialize in specific niches, offering highly specialized services that may not be available in-house within companies.

However, the gig economy also poses significant challenges, such as the lack of job stability and traditional benefits like health insurance and pensions, which can lead to greater economic precariousness for workers.

4. Project work and agile teams

In the modern business environment, more and more companies are adopting a project-based work structure. This approach allows organizations to form multidisciplinary teams to tackle specific projects with an agile and flexible approach. Key features of this model include:

- **Flexible structure:** Teams are formed and dissolved according to the needs of the project, allowing companies to adapt quickly to changes in the market.
- **Focus on results:** Success is measured in terms of the achievement of specific objectives and tangible results, rather than the number of hours worked.
- **Continuous innovation:** By working in short cycles, teams can experiment and adapt, fostering a culture of constant innovation.

This model, although dynamic, can be complex to manage, requiring constant communication and a clear definition of roles and responsibilities to avoid duplication of effort and ensure the success of projects.

5. Coworking and Collaborative Workspaces

Coworking spaces have emerged as an innovative solution for freelancers, freelancers and small businesses looking for a flexible and collaborative work environment. These spaces offer:

- **Shared infrastructure:** workers have access to equipped offices, meeting rooms and technology resources without the costs and commitments of leasing their own space.
- **Networking:** Coworking spaces facilitate professional networking and collaboration between individuals and companies from different sectors.
- **Dynamic environment:** Coworking spaces tend to foster a culture of innovation and creativity, providing a stimulating environment for work.

However, the popularity of coworking spaces also implies the need to manage privacy and information security in a shared environment.

6. Automation and Artificial Intelligence-Driven Working

Automation and artificial intelligence (AI) are revolutionizing the way many tasks are performed in the workplace. These technologies enable:

- **Automation of repetitive tasks:** AI can take over routine and administrative tasks, freeing employees to focus on more strategic and creative activities.
- **Improved efficiency:** Automation can speed up processes and reduce errors, improving the operational efficiency of businesses.
- **Advanced data analytics:** AI can analyze large volumes of data to identify trends and patterns, providing valuable information for decision-making.

While these technologies offer great benefits, they also raise concerns about the potential elimination of jobs and the need for ongoing training for employees to adapt to new tools and technologies.

7. Collaborative Work and Digital Tools

Digital tools have transformed the way teams collaborate, facilitating remote communication and project management. Among the most prominent tools are:

- **Project management platforms:** Tools such as Trello, Asana and Jira allow teams to organize and track the progress of projects efficiently.
- **Instant communication:** Applications such as Slack and Microsoft Teams facilitate rapid communication and real-time collaboration between team members.
- **Document collaboration:** Services such as Google Drive and Microsoft OneDrive allow teams to work on documents and files collaboratively and in real time.

These tools not only improve efficiency and productivity, but also allow teams to work more cohesively, regardless of their geographic location.

8. Inclusive Work and Diversity

Diversity and inclusion have become key elements of the modern work culture. Companies are recognising the importance of creating work environments that value and respect diversity of gender, race, ethnicity and experience. The advantages of an inclusive approach include:

- **Greater creativity and innovation:** Diverse teams bring different perspectives and experiences, which can lead to more innovative and creative solutions.
- **Improved corporate reputation:** Companies that promote diversity and inclusion often enjoy a better reputation and are more attractive to talent from around the world.
- **Improved performance:** Studies have shown that diverse companies tend to perform better financially and are more resilient in the face of market challenges.

Fostering an inclusive environment requires an active commitment by organizations to identify and remove barriers, as well as to promote a culture of respect and fairness.

New ways of working are redefining the employment landscape in profound and significant ways. From the flexibility of remote work to the innovation of agile teams and the inclusion of diversity, these trends are creating a more dynamic, inclusive and adaptive work environment.

As technologies continue to evolve and societal values change, it is critical that organizations and workers remain open to experimenting and adopting new practices that will allow them to thrive in the world of work of the future.

The key to success in this new paradigm of work lies in the ability to adapt and seize the opportunities offered by these new ways of working, while managing the challenges and mitigating the associated risks. In doing so, we can build a future of work that is not only more efficient and productive, but also fairer and more sustainable for all.

Integration of Green Career Education **7**

Integrating the orientation towards green professions in a transversal way in schools is essential to promote environmental awareness and prepare students to learn about new professional opportunities in the future. Green professions are those that contribute to preserving or restoring the environment, and include sectors such as renewable energy, waste management, sustainable agriculture, ecological construction, among others. Here are several recommendations for effective and meaningful integration:

1. Include Green Professions in the School Curriculum

a. Environmental Education

1.Existing Subjects: Integrate sustainability issues and green professions into subjects such as natural sciences, technology, economics and geography.

2.Interdisciplinary Projects: Develop projects that require collaboration between different subjects to address real environmental problems, promoting research and active learning.

b. Specific Contents

1.Vocational Training: Offer specific courses related to green sectors such as solar energy, waste management or organic farming.

2.Curricula: Incorporate modules on sustainability into existing curricula to foster knowledge of green professions.

2. Promote Environmental Awareness and Commitment

a. School Activities

1. Thematic Weeks: Organize weeks dedicated to sustainability, with activities such as conferences, workshops and exhibitions on green professions. The VRGreen Adventure Interactive learning program for the development of sustainability competences and pro-environmental attitude and behavior offers a framework for 7 thematic days of activities for students.

2. Workshops and Seminars: Invite professionals from the green sector to talk about their experiences and the importance of their professions.

b. Practical Projects

1. School Gardens: Create organic gardens managed by students to teach them about sustainable agriculture and the importance of the environment.

2. Reuse Projects: Promote recycling and reuse initiatives within the school to show the importance of waste management.

3. Establish Alliances with Green Entities and Companies

a. Collaboration with the Private Sector

1. Professional Internships: Facilitate internships in companies and organizations working in green sectors to provide real work experience.

2. Study Visits: Organize visits to facilities such as wind farms, recycling plants or solar energy companies to expose students to the practical applications of green professions.

b. Partnerships with NGO's

1. Joint Projects: Collaborate with local NGOs and associations on conservation and sustainability projects to engage students in meaningful activities.

2. Volunteering: To promote volunteering in environmental projects to encourage personal and professional involvement in the protection of the environment.

4. Specialized career guidance

a. Orientation Workshops

1. Informative Sessions: Organize workshops and talks that inform about the different professional options in the field of green professions.

2. Personalized advice: To offer personalized professional guidance to identify the abilities and interests of students.

b. Educational Resources

1. Teaching Material: Provide books, guides and online materials on green professions and their importance for the future of the planet.

2. Digital Platforms: Create or use digital platforms to share information and resources on education and green professions.

5. Promote Transversal Skills

a. Technological skills

1. ICT training: To promote training in information and communication technologies applied to sustainability, such as environmental data management or the use of software for renewable energy.

2. Innovation and Creativity: To encourage the use of technologies to develop creative solutions to environmental problems.

b. Entrepreneurial Skills

1. Entrepreneurship Projects: Motivate students to develop entrepreneurship projects that focus on sustainable and innovative solutions.

2. Green Business Training: Include training in business models and circular economy to foster interest in the creation of sustainable companies.

6. Integrating Sustainability into School Culture

a. Ecological Policy of the Centre

1. Sustainability Plans: Develop and implement sustainability plans for the school, including the management of resources such as water and energy.

2. Green Practices: Adopt green practices in the day-to-day life of the school, such as the use of recycled materials and the reduction of waste.

b. Participation of the Educational Community

1. Involve Families: Involve families in sustainability activities and projects to foster a community-based approach to green professions.

2. Green School Councils: Create sustainability-focused school committees or councils to promote the active participation of students and teachers in green decision-making.

Integrating guidance towards green professions in a transversal way in schools not only prepares students for a more sustainable future of work, but also contributes to the formation of citizens who are aware of and committed to protecting the environment.

Exploration discussion questions and prompts to use with the 360° videos

8



Before the video

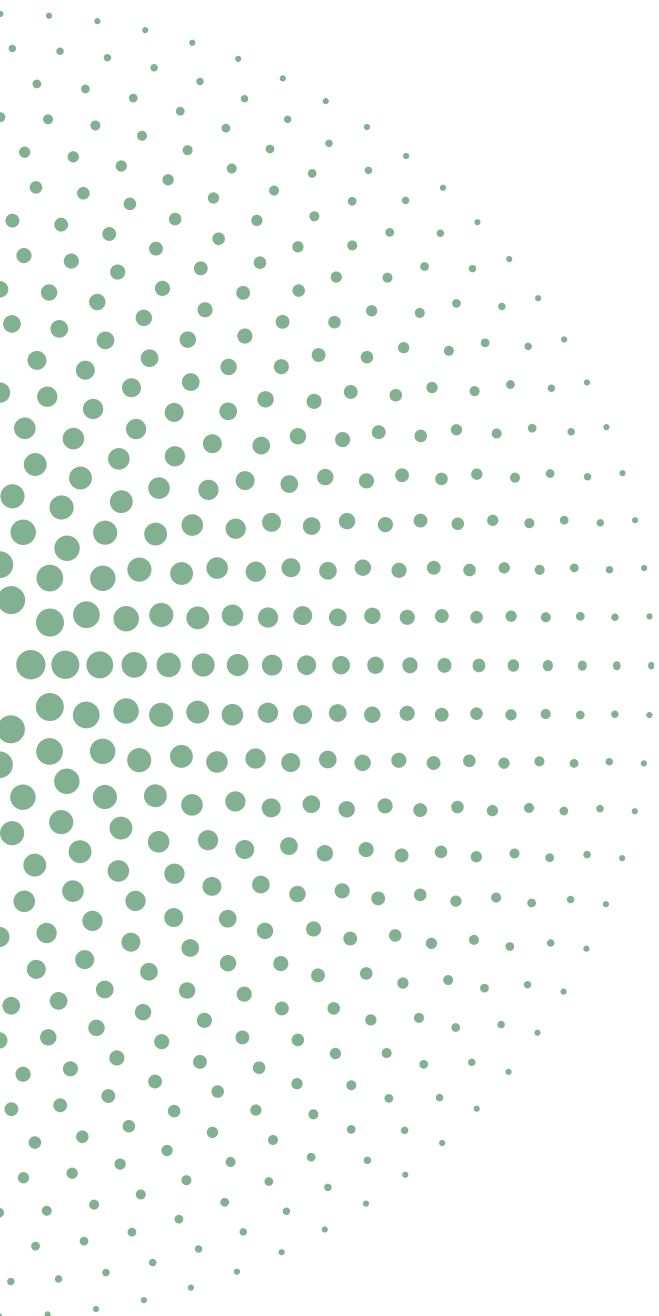


- What do you think about when you hear “green professions”?
- What professions do you consider green or good for the environment?
- How do the professions relate to the VRGreenAdventure themes (Recycling, Mobility, Energy...)?

After the 360° video



- Which profile did you explore?
- What is something new you learned about the profession?
- What is something you liked about the profession? What is something you didn't like?
- Was this a type of job that you thought was green?



Co-funded by
the European Union

The project "VRGreen Adventure (Nº 2022-1-ES01-KA220-SCH-00086689)" is co-funded by the European Union. The opinions and points of view expressed in this presentation only commit DEP Institut, S.L. and do not necessarily reflect those of the European Union or those of the Spanish Service for the Internationalization of Education (SEPIE). Neither the European Union nor the National Agency SEPIE can be held responsible.