

Department of Manpower and Employment



Shaping Career within the Environmental Sector

The Sustainable
Development Goals can be described as a universal call to eradicate poverty, protect the planet and ensure that all people enjoy peace and prosperity by 2030.

Most of the industrial infrastructure Facilities are already existed in around the world, "the fossil"fuelled power stations, the factories and inefficient transport and buildings are already contributing to the current high level of emissions and will continue to do so for decades to come. Meanwhile, the growth of the global population places intense pressure on the demand for scare resources.

Where job opportunities are increasing?

01Renewable energy,

02. Energy engineering,

03.Energy management, carbon and climate change, water engineering and waste management.

Water Engineering Job Opportunities

Industrial and domestic water supply is coming under increasing pressure from demographic and climatic changes. Water Engineering activities which are playing a key role in safe, reliable delivering water supplies to; households, industry and agriculture and in safeguarding the quality of water in rivers, lakes, aguifers and around coastal areas. Higher educated. skilled and experienced water engineering professionals are required, more than ever, to operate and manage vital water and wastewater treatment services. The demand for such professionals is already being high and will increase over coming years.





Example:

"Flood Modeling and Hydrologist Career opportunities available.In particular, leading technical organizations are recruiting rapidly water engineers who have experience within water and waste water projects, with treatment salaries of up to £50,000. there are excellent prospects for such specialist candidates."

(Source: Allen & york (2012/May/15), Carrer Trends in Energy and the Environment

Available at:

www.waterpowermagazine.com)

Areas where Green friendly job opportunities are created



Environmental goods and services, including water and waste management

Environmental Engineering

Renewable Energy

Construction and Building services

* Manufacturing

Agriculture and Forestry

Transportation services

Tourism

Extractive Industries

burce. Skills for a Greener Future: AGlobal View. (2019), ILO

"Environment" related (Newly) Emerging Jobs

Agricultural Engineer Entomologist

Archaeologist

Bioinformatics

Climatologist

Ecologist

Geographer **Hydrologist**

Marine Biologist

Meteorologist

Microbiologist

Molecular Biologist

Oceanographer

Paleontologist

Seismologist

Wildlife Biologist

Zoologist

Green jobs protential in Srilanka

**Agriculture, Forestry and Fishing

**Mining and Quarrying

**Electricity, Gas, Steam and Air conditioning

supply

**Water supply, Sewerage, Waste management

and Remediation activities

(Source: ASIA AND THE PACIFIC EMPLOYMENT AND ENVIRONMENTAL SUSTAINABILITY FACT SHEETS (2019)(pp.7).)



There are enormous opportunities for efficiency improvements in every sector of the economy, whether it is buildings, transportation, industry, or energy supply. According to the International Energy Agency (2017), energy efficiency technologies will contribute substantially towards achieving carbon neutrality by 2060.

(Source: Available at:

http://www.energy.gov.lk/en/energy-management/what-we-do)

Energy from Waste and Waste Engineering

Improving waste management operations water minimization and processes are all key to these roles and this is an area in which new technologies within Anaerobic Digestion and Biogas production are offering new and challenging job prospects within the waste industry.

Waste Management

The waste management sector is another to receive an injection of job opportunities based on number of trends, including the increase in population in any given area and secondly, our consumption patterns — which are controlled by the evolution of Gross Domestic Product per Capita (GDP/c). Obviously, both the increase of the population and the remarkable growth of global GDP/c will drive an increase in waste volumes — using macroeconomic data from the 30 Organizations for Economic Cooperation and Development (OECD) it has been estimated that a 1% increase in national income creates a 0.69% increase in solid waste amount. Moreover, our changing culture will mean that it is expected the demand for agricultural goods will rise by 70% and the demand for meat will double by 2050. Besides the serious issues related to food production and sustainability, these changes will alter the waste composition in a large part of the world.

Demand for sustainable products and services

Consumer awareness is driving a demand for more sustainable products and services. The strongest potential for sustainability-led opportunities lies in agriculture, renewable energy, waste management and tourism.

(Source: Future of work in sri Lanka: Shaping technology transitions for a brighter future, (ILO,2019),(pp.09).)

Sustainability, specifically the discipline of renewable energy is a sharply rising trend which creates more sustainable job opportunities. The increase in world population points towards a greater stress on our resources and the vital need to address sustainable energy development, water management and waste infrastructures for our future generations; all of which require rare, technically skilled and specialist professionals.



