



A member of Minnesota State

# Environmental Science Careers

October 5, 2020

Lisa Mohr, Career Services

[lisa.mohr@sctcc.edu](mailto:lisa.mohr@sctcc.edu)

# Career Services – What we Offer

- Career Exploration Assistance
- Employer connections
- JobNet – online job posting board and more
- Resume/cover letters
- Big Interview (online interview practice tool)
- Job Fair – April 1, 2021

# Career Exploration Assistance

- [Career Assessment link](#)
- Takes 10-15 minutes to complete
- Results immediately – start searching
- Share Holland Code with me – I'll explain it and guide you through the process

# Holland Codes

## RIASEC

- **Realistic**
- **Investigative**
- **Artistic**
- **Social**
- **Enterprising**
- **Conventional**



# Environmental Science Careers

- **Associates level**
- **Transfer level** – pursue a bachelors, masters and/or doctorate

# Associates level Careers

- **Technician** level roles in a variety of areas.  
Examples include: Air Emission Technician, Environmental Resources Technician, Incinerator Laboratory Technician
- Laboratory Assistant
- Field monitoring technician
- Assistant Energy Analyst
- Environmental Health Technician

# Environmental Field Technician

Perform laboratory and field tests to monitor the environment and investigate sources of pollution, including those that affect health, under the direction of an environmental scientist, engineer, or other specialist. May collect samples of gases, soil, water, and other materials for testing.



Associates or Bachelors degree

Bright Outlook

\$46,540 average pay

# Laboratory Assistant

- Work in a variety of industries.
- Assist and or perform routine and specialty analytical testing for compliance, safety, certification and verification purposes. Highlight anomalies in results and sample type and sample behavior from running basic tests.
- Calibrate equipment; prepare samples to be analyzed; perform basic laboratory tests.





# Health & Safety Technician

Collect data on work environments for analysis by occupational health and safety specialists. Implement and conduct evaluation of programs designed to limit chemical, physical, biological, and ergonomic risks to workers.



Associates or bachelors degree

Bright outlook

\$51,550 average pay

# Transfer level Careers



## Main Areas

1. Environmental Scientist
2. Environmental Engineer
3. Environmental Lawyer
4. Environmental Biologist
5. Environmental Geologist

# Career Fields in Environmental Science

The following are the five main career fields in Environmental Science

Career Fields/Careers	Holland Code	Major	Length of Study
<b>1. Environmental Scientist</b>			
<b>(a) <u>Oceanographer</u></b> (Marine biologist) Biological oceanographers and marine biologists study plants and animals in the marine environment. They are interested in a number of marine organisms and how these organisms develop, relate to one another, adapt to their environment, and interact with it.	IR	Biology	Masters
<b>(b) <u>Climatologist</u></b> (Atmospheric or Space Science) Study of atmosphere and weather patterns over time. This field of science focuses on recording and analyzing weather patterns throughout the world and understanding the atmospheric conditions that cause them.	IR	Climatology, Meteorology, Atmospheric Science	Bachelors, Masters
<b>(c) <u>Environmental Risk Assessment Manager</u></b> Compiles environmental risk assessments in support of regulatory submissions. Prepares input for post-submission regulatory inquiries. Assures scientific accuracy, cost-efficiency and regulatory compliance. Plans and coordinates environmental studies. Evaluates and applies relevant computer based prediction tools. For more on risk management: <a href="https://www.epa.gov/risk/risk-management">https://www.epa.gov/risk/risk-management</a>	IRC	Environmental Safety or Engineering, Health & Safety field	Bachelors, Masters  Sometimes less with work experience
<b>(d) <u>Environmental Scientist and Specialist, including Health</u></b> Conduct research or perform investigation for the purpose of identifying, abating, or eliminating sources of pollutants or hazards that affect either the environment or the health of the population. Using knowledge of various scientific disciplines, may collect,	IRC	Environmental Science or Engineering	Bachelors, Masters

# Environmental Scientist

1. Oceanographer
2. Climatologist
3. Environmental Risk Assessment Manager
4. Environmental Scientist and Specialist, including Health
5. Environmental Science Teacher
6. Geographic Information System (GIS) Specialist
7. Environmental Consultant
8. Environmental Planner
9. Environmental Research Analyst
10. Energy Analyst

# Environmental Engineer

1. Agricultural Engineer
2. Energy Analyst
3. Bioinformatics Technicians
4. Health and Safety Engineers
5. Environmental Engineering Technicians

# Scientist vs. Engineer

**Scientists** observe the world, while engineers focus on creating. ... While both fields do involve observation and analysis, **engineering** mainly deals with creating and working on already existing creations, while **scientists** work with things in nature.

Scientist vs. Engineer

# Environmental Lawyer

- Represent clients in legal issues such as in clean technology, water law, climate change law and the management of land subject to native title and other public land.
- Other areas of focus include environmental rights, international environmental law, law of the sea and international resources law.
- Environmental lawyers also work in the areas of climate change, sustainability and renewable energies, a growing area of enterprise globally.



# Environmental Biologist

1. Ecologist
2. Biogeochemist
3. Marine Biologist
4. Wildlife Biologist
5. Zoologist



ST. CLOUD  TECHNICAL & COMMUNITY COLLEGE

A member of Minnesota State



# Environmental Geologist

1. Paleontologist
2. Hydrologist
3. Geochemist



# Next Steps

Explore those careers that interest you

<https://www.mynextmove.org/explore/ip>

<https://www.onetonline.org/explore/interests/Investigative/Realistic/>

# Contact Information

**Lisa Mohr**

Career Services

Office Hours: M – F, 8 am – 4:30 pm

In office: Tues/Wed

Remote: Mon, Thurs, Fri

Phone: 320-308-5926

Email: [lisa.mohr@sctcc.edu](mailto:lisa.mohr@sctcc.edu)

