



SCIENCE CAREER  
ADVENTURES



**Krishna the Ocean Environmental Manager:  
Protecting Ecosystems**

# Meet Krishna!

Hi everyone! I am Krishna. I just graduated with my Master's Degree in Marine Biology. A Master's Degree is an advanced degree you can get after you graduate college. My family and friends were extremely proud of me when I received my diploma!



I am excited to apply for my first job as an ocean environmental manager. An ocean environmental manager works on projects to protect oceans. Here are some examples of projects that an ocean environmental manager would work on:

**Brainstorm ways to reduce pollution and prevent it from happening again in the future.**

**Conduct science experiments and surveys to determine the cause of ocean pollution.**

**Research how pollution affects biodiversity. Biodiversity refers to the number of different animals and plants in an area.**

# How I Became an Ocean Environmental Manager

**In middle school and high school, I took science classes and joined clubs that inspired me to use science to help protect our oceans!**

## In Middle School

I learned in science class that ocean water can become polluted. Polluted water can be foamy, smelly, and filled with green algae. My science teacher explained that humans can be the cause of ocean pollution. For example, humans dump chemicals into the water, which can cause pollution. My teacher told me that I should start a "Clean Earth Club" where students would meet after school to learn about ways to prevent ocean pollution from happening. I loved this idea!



## In High School

My science class took a field trip to an aquarium where we saw a movie about how ocean pollution harms coral reefs. In the movie, chemicals in sunscreens were bleaching coral reef, causing it to die. I learned that ocean environmental managers are working with sunscreen companies to change the ingredients in sunscreen.





# Job Posting

I am looking for my first job as an ocean environmental manager! Here is a cool job that I just read about. My next steps are to submit a cover letter and resume to the company!

## Company Name:

Clean Ocean Innovators

## Job Title:

Ocean Environmental Manager

## Job Description:

This position manages partnerships with local farmers. The manager will help farmers transition to using natural fertilizers without chemicals. The manager will also create an initiative called "Earth-Based Farming" to bring together farmers who care about the environment.

## Key Responsibilities:

- Communicate with local farmers the importance of growing crops without chemicals.
- Share research with farmers to explain how chemicals cause ocean pollution.
- Plan and oversee the "Earth-Based Farming" Initiative.
- Assist with social media posting on Instagram and Twitter to increase awareness of ocean pollution.

## Qualifications:

- Master's degree in Agricultural Science or a related field
- Ability to work through challenging situations
- Open minded
- Creative

## Salary:

- \$67,460 plus benefits

**PLEASE SUBMIT A RESUME AND COVER LETTER EXPLAINING WHY YOU ARE INTERESTED IN THIS JOB.**

# Cover Letter

**Take a look at my cover letter that I am sending to Clean Ocean Innovators. A cover letter is a document that explains why someone is interested in applying for a job and what qualifications he or she has.**

Krishna Rathmany  
4230 E. Taylor Road.  
St. Louis, MO 63143

December 10th, 2018

Dear Clean Ocean Innovators,

I am very interested in working for your company to manage your projects with farmers. I recently graduated with my Master's Degree in Marine Biology. I am extremely passionate about preventing and reducing ocean pollution.

During my Master's program, I learned why chemicals are dangerous for crops. When farmers use chemicals, especially fertilizers, the chemicals enter the water and cause algae to grow. Algae are small plant-like organisms that normally live in water. However, fertilizers cause algae to grow faster than usual. Over time, the overgrown algae cover the surface of the rivers, forming a thick layer on the water. By covering the water, the algae block sunlight. Plants in the river won't be able to get sunlight, which causes them to die. Then, fish who eat those plants do not have a food source, which causes them to die as well.

I also learned about a variety of methods to grow crops without chemicals. For example, adding fungi to the soil allows plants to take up more nutrients from the soil without having to add fertilizer. I am excited to share these ideas with farmers.

I hope to have the opportunity to meet with you to discuss this opportunity further.

Sincerely,  
Krishna Rathmany

## Did You Know?

Employers read cover letters so they can have a summary of your qualifications and why you are excited to apply for a job. Employers get hundreds of applications, so it is important for a cover letter to stand out!



# Resume

Take a look at my resume that I will also be submitting to Clean Ocean Innovators!

## Krishna Rathmany

### Education

Master's Degree in Marine Biology from Florida State University

Bachelor's Degree in Environmental Science from Florida State University

3.87 GPA

Newman High School

3.2 GPA

### Experience

Assistant to Ocean Environmental Manager (2016-2018)

- Worked on the "Beauty Products and Pollution" Initiative to explain to companies the dangers of using chemicals in their products. Specifically, I worked with a large shampoo company to explain the importance of using natural ingredients in shampoo.

Science Teacher for All-Stars Program (2015-2018)

- I taught environmental science classes in an after-school program for students in K-5th grade. I organized activities and experiments for students to learn about environmental science.

### References

- Dr. Robert Sherwin (supervisor of Beauty Products and Pollution Initiative)  
email: rsherwin@fsu.edu
- Professor Janice Quinlan (advisor for All-Stars Program)  
email: jquinlan@fsu.edu

## Why are Resumes Important?

Resumes show employers what grades you had in school and what jobs and experiences you have. A resume is like a summary that employers can quickly read through to see if you are qualified for the job. Then, they can decide if they want to interview you for the job.

