Environmental Engineer

**Industry Demand of Environmental Engineer**

* Awareness for environmental safety increasing rapidly and changes to environmental laws contribute to a lot of industries needing more environmental engineers.
* Climate change will lead to uncertain changes in the environment, expertise in the environment will be more needed and environmental engineers can fill that role.

**Average Salary**

* Entry Level Salary in the United States: $ 60,000/Year
* Mid Career Salary in the United States: $ 85,000/Year
* Average Salary in Indonesia: Rp 133.000.000,00/Year

**Core Tasks**

* Create recommendations for maintaining and improving environmental performance of a certain project.
* Review environmental regulations, and determine whether they're being applied properly and make adjustments based on the regulations if it is not being applied properly yet.
* Report environmental management problems and create a solution to solve it.
* Create and maintain environmental quality management systems that comply with environmental law.

**Working Conditions**

* Will be on site assessing the environment when working on field projects. This can include places like rivers or lakes that are near a future factory construction site.
* Otherwise would be working in office to review and assess environmental regulations
* Will involve a lot of collaboration and communication with various people including government officials, technicians, managers etc.

**Skills Required**

* Matlab
* RStudio
* Autocad

**Career progression data**

* Pathways :
  + Earn a bachelor degree in Environmental/Civil/Chemical Engineering
  + Earn a masters degree in related degree which does not necessarily have to be engineering (Business, Math etc).
  + Senior environmental engineers would have a more managerial role where they would supervise other junior environmental engineers and communicate a lot with higher ranking supervisors.
  + Can become an independent consultant further in the career.
* To become an environmental engineer, a bachelor’s degree is enough though further education (masters) can increase pay.

**Possible University Major**

* Environmental Engineering
* Civil Engineering
* Chemical Engineering

**School subjects required**

* Math
* Physics
* Chemistry
* Biology