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Individual Essay, BF991 Research Philosophy

**Introduction:**

In this essay, I will TODO

**Research lay-out:**

My research topic and methods are different than most other research that takes place at the Strathclyde Business School. It’s part of the natural sciences, as opposed to most other research done in this faculty, which is social science.

The official title of my research is “Simulation and Optimisation of Offshore Renewable Energy Arrays for Minimal Life-Cycle Costs”, meaning the research aims to minimize costs of Offshore Renewable Energy Arrays, mostly windfarms in the North Sea. The Life-Cycle Costs can effectively be split in three phases; the installation, the maintenance and the decommission. The primary methods used for this in the literature, and which I plan to use, are simulation and optimisation; the goal is to mathematically model the schedule of an installation, maintenance and/or decommission project in such a way that solving the minimisation-equation(s) can still be done in a reasonable time, and give an efficient schedule.

It should also be noted I am further along with my research than most people taking this course, having started roughly 18 months ago. Due to this, I have already looked into which methods fit my research best, and I have written extensively about them in my first year report. Parts of this essay will come from my writing there.