Process Control Engineer

**Industry Demand of Process Control Engineer**

* Nowadays, Process Control Engineers are needed in all manufacturing industries (e.g. paper industry) as they will have some sort of process to create their products.
* The field of process control is always needed as the demands from consumers, regulations and technology are always changing. Thus, new process control engineers with new knowledge are always welcome.

**Average Salary**

* Entry Level Salary in the United States: $ 70,000/Year
* Mid Career Salary in the United States: $ 82,000/Year
* Average Salary in Indonesia: Rp250.000.000,00/Year

**Core Tasks**

* Responsible for ensuring a manufacturing process is running safely, smoothly, and reliably
* Optimizing the processes in a production system to improve product quality and reduce unnecessary costs
* Document and tabulate the daily processes for check ups and maintenance of the production system

**Working Conditions**

* Usually works in the field (The assigned factory from the company)
* Will often collaborate with different technicians, other engineers, supervisors etc.
* Will often be challenged to solve problems that might occur in the processes and find the optimal solutions

**Skills Required**

* Matlab
* Aspen HYSYS
* RStudio
* Autocad
* Problem Solving Skills
* Communication Skills

**Career progression data**

* Pathways :
  + Earn a bachelor degree in Chemical/Mechanical/Electrical/Industrial/Process Control Engineering
  + Earn a masters degree in related degree which does not necessarily have to be engineering (Business, Math etc)
  + Can be promoted further to Engineering manager/Operations Manager
  + Can become an independent consultant further in the career
* To become a process control engineer, a bachelor’s degree is enough though further education (masters) can increase pay.

**Possible University Major**

* Chemical Engineering
* Mechanical Engineering
* Industrial Engineering
* Process Control Engineering (Usually offered as Minor)

**School subjects required**

○ Math (Calculus I)

○ Physics (Newtonian Mechanics, Static Electricity)

○ Chemistry (General Chemistry)