Pharmacists

**Industry Demand of Pharmacists**

* Pharmacy are responsible for distributing medicine to the public in the safest and economically sound way possible. The ageing population of the world would mean that medications are increasing in demand. There are 3 main industries where pharmacists can work at:
  + Hospital Pharmacists: They work closely with doctors to prescribe and provide medicines while also storing, quality testing and ordering the medicines. Healthcare jobs are always in demand due to the nature of the healthcare industry.
  + Retail Pharmacists: Prescribes prescribed and over-the-counter medicines to the general public in a retail pharmacy (such as a local chemist), and advises customers on the safe usage of medicines. As self medication is becoming more prevalent, there needs to be trained professionals who can supply the medicines.
  + Industrial Pharmacists: Would work in the pharmaceutical industry where they help discover and develop new drugs. The Pharmaceutical Industry is one of the biggest and most stable industries out there.

**Salary (Range)**

* Entry Level Salary in the United States: $ 77,000/Year
* Mid Career Salary in the United States: $120,000/Year
* Average Salary in Indonesia: Rp 202.000.000,00/Year

**Core Tasks**

* Compounding and dispensing drugs to customers based on prescriptions written by doctors, by calculating, weighing and mixing ingredients.
* Provide information to customers on the drugs, their usage, doses, proper storage, and side effects.
* Collaborating with other pharmacists, healthcare professionals, and government officials to plan, monitor, review, or evaluate the quality or effectiveness of drugs
* Advising customers on the proper medications to use in accordance with the situation.

**Working Conditions**

* Working conditions will depend specifically on the workplace.
  + Hospital Pharmacists: Collaborate and communicate a lot with the doctors and also will spend a lot of time interacting with patients.
  + Retail Pharmacists: Will spend a lot of time with customers apart from the usual administrative tasks.
  + Industrial Pharmacists: Would work a lot in the lab and office. Also a lot of collaboration with fellow pharmacists on designing and testing new drugs.

**Skills Required**

* Analytical skills
* Attention to Detail
* Communication Skills
* Observation skills

**Career progression data**

* Pathways :
  + Earn a bachelor's pre-pharmacy degree in related majors like biochemistry, biology and bioengineering
  + Earn a doctorate of pharmacy (PharmD.)
  + In order to get a pharmacy license, aspiring pharmacists would need to take required tests (depending on regions).
  + Pharmacists who plan to work in a specialized field of pharmaceutics like psychopharmacology or pharmacoepidemiology often complete a residency program lasting one to two years. This is also recommended for those who are interested in research.

**Possible University Major**

* Bachelor's pre-pharmacy degree in related majors like biochemistry, biology and bioengineering
* Doctorate of pharmacy (PharmD.)

**School subjects required**

* Biology
* Chemistry