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The pharma sector has plenty of job opportunities for young g aduates as India is the largest producer of generic drugs globally

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Usha Albuquerque

As diseases like dengue, typhoid and chikungunya spread their virulent tenta-cles across the country, more and more people are spread their virulent tenta-cless across the country, more and more people are beginning to look at alter-native medical remedies for themselves. In fact, the complexities of modern medicine, with thousands of drugs being developed and dispensed every day, has created an increasing demand for trained phar-macists and a massive expansion of the pharma-ceutical industry. Pharmacists are spe-cialised health professionals showork on developing and preparing different medic-nal drugs used in the pre-vention and cure of diseases. They also study the proper-

They also study the prope ties, usage and effects of va ious drugs and test drugs for

purity and strength. Moreover, pharmacists dispense drugs and medicines prescribed by physi-cians, surgeons, dentists and other specialists.

Work scape Production and manufactur ing: Pharmacists who work in drug manufacturing and pharmaceutical companie are involved in the produc tion of the medicines. This involves the production and manufacturing not only of drugs and medicinal formulae but also biotechnologi-cal products, surgical dress-ings, medical devices, devices

ings, medical devices, equipment, avurvedic/homeopathicuma ni medicines, veterinary, medicine, as well as cos-metics, soaps, toiletries and dental products. If you have dental products. If you have entrepreneturial skills you can set up your own small manufacturing unit for preparing the basic chemi-

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cals or compounds for larg-er pharmaceutical compa-nies. Analysis and testing: This involves working in med-ical analytical laboratories, and supervising or prepar-ing the solutions and com-pounds that are mixed together to form powders, tablets, capsules, ointments and so on. It also requires testing of reactions of the drugs before these are introduced in the market for public consumption. Quality control (QC) and Quality or pharmaceuti-cal products produced dru as per standard specified in National or other approved pharmaceucida. Research geovennemt: Mary pharmaceutical com-panies have set up research and development centres to build their own formulae for medicines, which can be manufactured after testing and analyses. Pharmacits with M. Pharm and PhDs are required for research and development of new drugs, process develop-ment, formulations, chinical trials and toxicology studies. Marketing: The sales and marketing personnel in the pharmaceutical industry are known as medical rep-resentalives or business executives. Unlike other consumer products, new drugs and medical products manufactured by pharma-ceutical companies are introduced through doctors and medical practitioners.



Medical representatives must pay regular visits to doctors, dentists, hospitals, clinics, nursing homes and health centres to promote these products. Pharma-ceutical sales and market-ing is a highly technical field and most pharmaceutical companies prefer to recruit trained pharmacy graduates. Retall pharmacists : Most.

professional pharmacists

are involved in retailing of drugs in a pharpacy or chemist outlet. Refail phar-macists prepare and dis-pense drugs on prescription and are expected to provide over the counter advice on the use of the medicines prescribed, as well as han-dle the business and mar-keting aspects of running a chemist shop. A licence from the state Drugs Con-trol Authority is necessary

to start a retail pharmacy business. Regulatory bodies: The pharmaceutical sector from Regulatory bodies: The pharmaceutical sector, from manufacturing to stale of medicines; is regulated by the central and state gov-ermment through a process of licensing and inspecting. The Food and Drugs Administration (7DA) is the regulatory body that deals with governing and imple-menting the rules and regu-

lations for the drug and pharmaceutical industry. Pharmacy graduates can join this department which recruits drug inspectors and drug controllers, usually through the central or state public service commission.

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A word of caution

Vocational courses in pharmacy are considered lilegal by the Pharmacy Council of India, so before enrolling in any programme you must check the credentials of an Institute.

offering courses in pharmacy

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Getting in If you have completed Plus II or equivalent II or equivalent with physics, chemistry and biology/mathematics then you are eligible for the Bachelor's degree in Phar-macy or BPharm, which is of four years duration, as also the Diploma in Pharmacy which is for two years. Newly introduced is the six year PharmD, integrated Doctorate in Pharmacy for those looking towards a research career in pharmacy. Admission to most uni versities is made on the basis of the results of an entrance exam, or the JEE for the participating instiWith a diploma or bache-lor's degree in pharmacy you can work as retail chemists, drug inspectors and in certain areas of man-

tutes

and incertain a sense of mars underturing incertain a sense of mars underturing incertain a sense macy Council of India has preseribed the Diploma sin Pharmacy as the minimum qualification for registra-tion as a "registered phar-macise", to work in medical dispensing stores. However, for greater career growth and mobility it is advisable to also take up the master's course duffharm) which is of two years duration after Brharm.

(MPharm) which is of two-years duration after BPharm. There are many universi-ties and colleges that offer-pharmacy at the diploma and degree levels recog-nised by the Pharmacy Council of India. Most universities offer the course, including BITS Pilani, Delhi University.

and Pardiab University. **Job prospects** Most pharmacy graduates are employed as pharmac-cists in hospitals, retail chains or independent chains or independent chains or independent chains or independent the set of the set of the complete a diploma in phar-macy can work as retail chemists, acless representa-tives in medical stores and hospital pharmacist. A graduate pharmacist is recognised by the Pharma-cy Quueli of India as an approved chemists in the pharmaceutical industry and in nanufacturing, as well as in R. &D work. They can also be involved in re-packaging of drugs and chemicals, or work as man-ufacturing chemists for toget does not toget the proved chemister. Tharmacists also work toget develop new ideas and products or materials for use in the pharmaceutical field. With the growth of the

tunities. Those with an academic

bent of mind can go into research or teaching or work in research organisa-tions, government depart-ments and educational institutions. They can also work in the government offices, the National Drugs and Phirmaceuticals Development Council, and with the Customs depart-ment as Drug appraisers, or as narcotic inspectors, or in the department of drugs control. With growing advance-ment in the field of medi-tion in the set of the set was set of the set of the set rease of work for pharma-cists with, postgraduate qualifications for work in activities like: elinical research, intellectual proj-erty rights; pharmeovigi-lance and so on .

As more and more medici-

nal products and therapies are added onto the health system, research organisa-tions and pharmaceutical

companies, clinical research organisation, regu-latory bodies, regulatory process outsourcing, and knowledge process out-sourcing bodies are continuously involved in expand-ing the boundaries of knowledge through scien-tific study of the effects, tific study of the effocts, risks, efficasy and benefits of a medicinal product or pharmacological threapy. Food and drink companies also employ pharmacy grad-uates to work in a range of roles within R & D and qual-ity control, while an MBA after B Pharm can extend that to include seles and man-etat to include seles and man-etat to include of Catesr Small

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field. With the growth of the pharmaceutical industry in India, and entry of multi-national research organisa-tions, this is an exciling area of tremendous oppor-tunities.



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