

JOB DESCRIPTION: Biochemistry

A Career in Biochemistry

Biochemistry is the discipline in which scientists combine chemistry and biology to investigate living systems and their relationship to the environment. Nutrition was extremely critical for early explorers on Earth and will be even more important for astronaut explorers. The benefits of using nutrition and dietary patterns as countermeasures to prevent negative conditions associated with spaceflight include the low risks for side effects, low costs, and minimal crew time required during flight.



A biochemist is concerned with what effects the environment, diseases, foods and chemicals have on living things. Biochemists develop methods for testing, run the tests, and write reports about the results of the tests. The testing is to develop new technologies, treatments, medicines and vaccines for treating diseases and reducing other environmental concerns. Most biochemists engage in research which supports, industrial or food industry biochemistry and clinical (hospital industry) biochemistry.

Some specializations of biochemistry include microbiology, the study of microorganisms, and zoology, the study of animals. Other biochemists tend to work in universities, private laboratories, cosmetics industries, and agricultural research for the government. Research in other areas (for example, cardiovascular, muscle, bone, immunology, and radiation) has highlighted nutrition as integral to their success and indicated where additional efforts are required. These efforts will enable safe human exploration of space.

Becoming a biochemist is actually a challenging but an engaging experience. It takes several years of education to turn out to be a professional in the field, such as obtaining a PhD. Nonetheless, if you are positive this will be the excellent area of study for you, the studying process will likely be incredibly rewarding. Your education and training will include studying about cutting-edge bioscience investigation and making use of high-tech scientific equipment in real laboratory environments.

High school students interested in biochemistry should take chemistry, biology, physics, mathematics, and English. An undergraduate degree really should be in biochemistry, biology, or chemistry; specialized training ought to follow at the graduate level. A doctoral degree is normally needed to teach or analysis at a university level or to accept management or administrative positions. Scientists who want to do specific kinds of research involving human beings should turn out to be a Physician of Medicine (MD).



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