



Biotech Science Career Responsibilities

By Logan Strain

In a biotech science career, a person works with living organisms while performing research designed to determine their relationship with the environment. Most biotech science careers focus on one specific field of biology, though it is possible to focus on more than one area of study. The most common examples are zoology (the study of animals) and microbiology (the study of microscopic organisms), with most of the work for this career being done in research and development.



Work conditions for a biotech science career vary greatly depending on the type of research the scientist conducts, but personal risk is rare within the field. A biotech science career can often involve managing others in addition to conducting research.

In addition, these positions are often found within a university or college setting, which means they involve high levels of interaction with professors and students.

In addition to colleges and universities, positions in biotech science are also available in the private sector and with the military. Stamina can often be a requirement for the job depending on the type of research being conducted. A biotech scientist must also exhibit dedication, patience, and a willingness to record and write out results and research techniques.

There are many jobs in the biotech science field available, though competition can be quite tough. This is largely because salaries in the private sectors of research are often quite high. At the same time, the amount of income earned is often tied strongly to the results of the research.

Launching a Biotech Science Career

Starting a biotech science career often involves completing heavy levels of education, with a PhD required for those interested in becoming involved with independent research,

industrial research, or college teaching. If a person is looking to be employed in a biotech science career with only a master's degree, he or she will generally be restricted to careers in applied research, product development, management, inspection, teaching, or assisting with research. A bachelor's degree can qualify one for some non-research jobs in biotech science, but at least a master's degree is the standard in the field and most seek a PhD in order to enjoy advancement in the field.

Most advancement in biotech science takes place through research and experience. When combined with the appropriate education, having experience in the field can take one far.

The coursework required for a biotech science career can vary according to the area of specialization the person wishes to pursue. In general, courses include those in chemistry, biology, computer use, and lab equipment usage. In addition to coursework, those interested in a biotech science career must also complete fieldwork and lab research. It is also necessary to complete a thesis or a graduation dissertation in order to earn a PhD. In many cases, this step is also necessary when working toward a master's degree.

Those who finish their PhDs will find themselves working on postdoctoral research that focuses on specialized research, which will also provide them with the opportunity to become a published researcher. A solid research publication history is a vital part of gaining a permanent research position in biotech science, especially if one wishes to have a long-term career at a university or college.

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