

# A Bright Future

## Why Maryland?

Maryland is home to premiere bio/medical schools and facilities alongside nearly all of the nation's most critical federal research agencies. It is a fertile breeding ground for new exciting start-ups as well as an established environment for biotechnology, pharmaceutical and research tools players.

## Why Biotechnology?

Biotechnology is one of Maryland's more exciting and faster growing industries. A job in biotechnology can lead to a career in biotechnology. The industry offers multiple career paths from entry level to senior level positions. Career paths may follow an emphasis on science or branch into any of several business functions.

## Why Career Mapping?

Career mapping is a "grid map" that lists jobs within an industry and outlines their required qualifications for employment. This visual overview provides information about career opportunities available in Maryland's biotechnology industry and the education and experience needed for career advancement or entry into a particular occupation.

## Who Uses Career Maps?

Anyone can benefit from career mapping. Whether you have yet to attain your high school diploma/GED or have a college degree, career maps provide a pathway to rewarding careers in biotechnology. If you are already employed and want to advance or move into another biotechnology occupation, mapping will give you the basics- job duties and education requirements.

## How do you Navigate Career Maps?

There are six career tracks- research and development, quality systems, manufacturing and operations, clinical studies, sales and technical support, and non-science positions. There are a series of educational steps as you read from left to right across the map. Generally education, experience and salary increase as you move left to right to higher educational degrees that appear across the top of the page. Within a given degree (column), there may be an increase in the experience and education/training required as you move from the top to the bottom of the page, although this is not true in all cases.



# biotechnology



This career map provides navigation into the biotechnology industry and the beginnings of a vibrant and interesting career in one of Maryland's faster growing industries.



Hands-on experience is highly valued in the biotechnology industry. Applicants that have relevant experience and less formal education may compete well with those with higher education levels and little experience.

For those with advanced training or experience in the biotechnology business, an expanded career map with more positions can be found on the online career map hosted by BioBuzz ([www.biobuzz.net](http://www.biobuzz.net)).

Job titles, position descriptions and requirements may differ from employer to employer. For example, one company's Research Associate position may have different requirements than another company. To create this career map, similar positions were compiled and a "typical" job title, position description and requirements were created.

For careers in health care, visit the Baltimore Alliance for Careers in Healthcare at [www.baltimorealliance.org](http://www.baltimorealliance.org). or call 443.931.3076.

## Partners



## Training Resources

There are numerous training resources available to those seeking a career in biotechnology and to those looking to expand their career through new skills and experiences.



[www.montgomerycollege.edu/biotech](http://www.montgomerycollege.edu/biotech)

Montgomery College's biotechnology program, the largest in the State of Maryland, prepares students for a position in the biotechnology industry. Professors design curriculum and courses with input from local biotechnology professionals. Students may earn an A.A.S., Biotechnology or two Certificates in Biotechnology or Biomanufacturing.



[www.biotrain.org](http://www.biotrain.org)

Advance your life science career with courses, workshops and seminars from BIOTrain. Choose from programs that enhance basic work skills, industry relevant skills or specialized technical skills. All programs are designed with biotechnology guidance and taught by industry experts. BIOTrain in partnership with Montgomery College is supported by an EARN grant from the State of Maryland.



[www.BioTrac.com](http://www.BioTrac.com)

Bio-Trac in partnership with Montgomery College offers graduate/post graduate level hands-on laboratory training workshops for research scientists. Courses are team taught by active researchers and innovators from leading research institutes and private industry. Bio-Trac courses deliver instruction on current research methodologies.



[www.biotechmd.org](http://www.biotechmd.org)

The BioTechnical Institute of Maryland, Inc. (BTI) offers specialty scientific training and placement assistance for entry-level technicians in Maryland's rapidly expanding biotechnology industry. A combination of classroom instruction, hands-on training and on-the-job work experience enables BTI's successful graduates to realize employment options and new careers.



## Career Opportunities in Biotechnology

