cells, and molecules. This can be considered as the use of knowledge from working with and  
manipulating biology to achieve a result that can improve functions in plants and animals. Relatedly,  
biomedical engineering is an overlapping field that often draws upon and applies biotechnology (by  
various definitions), especially in certain sub-fields of biomedical or chemical engineering such as  
tissue engineering, biopharmaceutical engineering, and genetic engineering.

## Wikipedia Excerpt: Image processing

Digital image processing is the use of a digital computer to process digital images through an algorithm. As a subcategory or field of digital signal processing, digital image processing has many advantages over analog image processing. It allows a much wider range of algorithms to be applied to the input data and can avoid problems such as the build-up of noise and distortion during processing. Since images are defined over two dimensions (perhaps more), digital image processing may be modeled in the form of multidimensional systems. The generation and development of digital image processing are mainly affected by three factors: first, the development of computers; second, the development of mathematics (especially the creation and improvement of discrete mathematics theory); and third, the demand for a wide range of applications in environment, agriculture, military, industry and medical science has increased.