

# Automation of a Bioreactor

During gas fermentation, microorganisms can utilize different gases such as carbon dioxide to grow and produce useful side products such as biodegradable plastics. To optimize the process, an automated bioreactor was set up in cooperation with the institute of biotechnology and biochemical engineering and experiments with different controllers were carried out.

The goal of this project is to become familiar with the biotechnological process and improve the LabVIEW software during the following steps:

- Simulation of chemical and biotechnological processes with different control algorithms
- Integration of sensors into bioreactor and LabVIEW environment
- Perform fermentation experiments

- Start: now
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