

## Internship position at Celltainer Biosolutions GmbH, Berlin

### The company:

The Celltainer Biosolutions GmbH is a daughter company of [Celltainer Biotech BV](#) in The Netherlands and involved in process and development support to the customers of Celltainer Biotech BV as well as providing development support to Celltainer Biotech BV itself. Since 2015, Celltainer Biotech BV develops, produces and sells single-use bioreactors on basis of their unique 2-D rocking based platform. These reactors are characterized by their high oxygen transfer capacity and mixing performance under low-shear conditions. Celltainer Biotech also provides monitoring and control instrumentation integrated into their bioreactor systems.

### Challenge & Project:

In the market for single-use bioreactors, also stirred bioreactors (STR) are intensively used from a scale of 50mL up to 4000L. Especially the STR's with a smaller volume are made of hard-plastic materials (like polycarbonate). These reactors are available up to total volumes of 15L and are more expensive.

Celltainer aims to develop a competitive STR with some specific properties: cheaper vessels, easily to handle and suitable for a wide range of applications.

The final outcome of the project has to be an innovative product (STR-prototype) with low production costs and suited for typical biotechnological applications. Within the project, 5-10 prototypes have to be produced, sterilized (by gamma irradiation), validated and tested. The material and manufacturing documentation need to be developed as well.

### Internship Conditions:

For this project we look for **2 MSc students** in the frame of an internship having a strong background in **mechanical and (bio-)process engineering** and knowledge about biocompatible **materials and production methods**. Possible studies are: Biotechnology, process engineering, food technology, etc. Students of material sciences, combined with experiences in biological processes, can also apply.

The working place will be based in Berlin. The project can start by **April 1<sup>st</sup>, 2020** for a period of at least **12 weeks**.

For further information or sending the CV, please contact [info@celltainer.com](mailto:info@celltainer.com) or [info@biopat.org](mailto:info@biopat.org) until **25<sup>th</sup> of March 2020**.

We are looking forward to work with you!