

# Interested in working with industrial machines?



## Interdisciplinary Project (IDP)

### Development of systems communication and control algorithm for robot-based 3D printers

LEAM is a start-up dedicated to developing a system that enables 3D printing of large parts with high performance polymers. Our solution detects the current temperature of a part. For ensuring best part properties the temperature is then adjusted to ensure optimal printing conditions.

For developing the required communication between sensors, energy source, machine controller and industrial PC, we are looking for students interested in an Interdisciplinary Project for Informatics (IDP).

#### Your tasks:

- Establishing the communication between the different components of our system (incl. industrial robots, microcontrollers or power electronics)

- Developing a control algorithm for optimum part temperature and machine performance
- Taking first steps towards a cloud-based solution for sensor data analysis

#### Your profile:

- Student in in the field of computer science or similar
- Experience in programming C/C++
- Interest in working with hardware

For more details please don't hesitate to contact us at: [benno.boeckl@tum.de](mailto:benno.boeckl@tum.de)

Gefördert durch:

