

### Validation of residual thermoplastics in 3D printing

**Background:** In collaboration with Cashkeeper, our research team is excited to offer an internship opportunity focused on the sustainable use of residual thermoplastics in 3D printing technologies.

**Project description:** The project aims to evaluate and validate the use of residual thermoplastic materials from Cashkeeper in 3D printing applications. Responsibilities include:

- Collecting and characterizing residual thermoplastic materials.
- Assessing the feasibility of extruding these materials into standard FDM filaments.
- Testing the performance of the produced filaments in FDM 3D printing processes.

**Required skills and/or qualifications:**

- Bachelor's students in Chemical Engineering, Mechanical Engineering or Industrial Engineering.
- Master students in Industrial Engineering.
- Interest in sustainable materials, green technologies, and additive manufacturing.
- Willingness to perform hands-on experiments.

**Remuneration:** 8 €/h

**Dedication:** 600 h

**Positions:** 1

**Sponsored by:**

