DUFOR
POLYESTER SPECIALTIES

HBO Internship - Research & Development

Start: In consultation - 40 hours a week
Zevenaar, the Netherlands

The mission of DuFor:

Creating a sustainable world in which fewer fossil resources are needed.
Therefore, we are constantly improving our product portfolio by creating polyesters that are designed for recycling.

The focus areas for this internship are:

- ✓ Closed loop recycling of 3D printing materials
- ✓ Fully recyclable trays and films for disposable packaging
- ✓ Conductive materials
- ✓ Polyesters with improved and enhanced wear and friction properties

During this internship you will:

- ✓ Set up and perform experiments on twin screw extruder
- ✓ Set up and perform experiments on SSP (Solid State Polycondensation) unit
- ✓ Analyze and report findings, observations and recommendations for future experiments
- ✓ Set up methodology for rheological analysis and DMA (dynamic mechanical analysis)
- ✓ Set up methodology and test various compounds for 3D printing and analyzing

Techniques and methods:

- ✓ Melt flow rate (viscosity)
- ✓ DSC (Differential Scanning Calorimetry)
- ✓ TGA (ThermoGravimetric Analysis)
- ✓ 3D printing
- ✓ DMA (Dynamical Mechanical Analysis)
- ✓ Twin Screw Extrusion, compounding
- ✓ Solid State Polycondensation

Your profile:

- ✓ HBO Chemistry- Major in organic/ polymer chemistry and/or (circulair) plastics
- ✓ Creative
- ✓ Persistant
- ✓ Incisive
- ✓ Analytical

You will be working in a small research minded team with lots of freedom for experimenting.
The final project can be defined and limited together.

Interested? Send us your motivation letter and CV.

Paul Janssen
Product & Process Developer
pauljanssen@dufor.nl