

RESORTECS

Testing Engineer Intern (m/f/x)
Brussels – Belgium (4-6 months) - full time

Are you a driven Engineering student with a strong interest in generating knowledge from experimentation? Are you passionate about circular economy, fashion, as well as technology? Join us in leading the clean-tech revolution that will shape the future of fashion!

Resortecs is an award-winning start-up that develops technology to empower smart textile disassembly, sorting, and recycling – driving full circularity and sustainability in the fashion industry without creative nor quality trade-off.

YOUR RESPONSIBILITIES

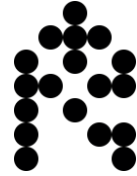
As Testing Engineer Intern, you will support the Technical Lead for Disassembly in all disassembly-related tasks, mainly working on the explorative testing work on the disassembly of garments/textile products prototyped by Resortecs' customers. You will be performing the textile disassembly trials and you will be autonomous in the recording, the analysis and the interpretation of textile disassembly test results using the Resortecs' innovative thermal disassembly oven. Other disassembly-related tasks will also be part of your mission, such as supporting the next developments of Resortecs' thermal disassembly tools.

Your main tasks and responsibilities will be:

- (1) Resortecs batch oven: support in performing (live) feasibility tests for brands
Goal: assist Resortecs' Technical Lead for Disassembly in executing tests with Resortecs' batch oven to assess the full disassembly of garments/products sewn with Resortecs threads; assist in formulating the conclusions and reports for the customers:
 - a. Define a relevant schedule and share availabilities with customers
 - b. List and analyse the components and materials of prototypes sent by brands
 - c. When possible, identify the physical properties (area weight/density, type of textile structure, moisture content...) and thermal properties (specific heat, melting or glow temperature...) of the prototypes' materials
 - d. Perform thermal disassembly trials of the prototypes through Resortecs' customers/partners using mainly the Resortecs textile disassembly oven
 - e. Write a disassembly test report for external communication to Resortecs' customers/partners (as well as optimization of Resortecs' test protocols, if applicable).
 - f. Assist in performing a live demonstration for the brands, or assist in recording the relevant footage of the test to be sent to the brands

- (2) Know-how safeguarding: compiling of all learning on the Resortecs disassembly process,
Goal: document all the conclusions obtained through or desk research on the disassembly of garments/textile products
 - a. Compile all test results and develop in an extensive internal report all the technical learning for the disassembly of each new product
 - b. When relevant, update and improve the disassembly test protocol to standardize the optimisations found in setting the disassembly parameters
 - c. Create product disassembly sheet to summarize all the essential aspects of the disassembly process specific to the products

Resortecs, Recycling made Easy.



- (3) Maintenance tasks and potential improvements on the Resortecs disassembly oven
Goal: assist the Technical Lead for Disassembly in the maintenance tasks of the Resortecs disassembly oven, and brainstorm together with him on potential improvements of the disassembly oven
- (4) Side innovation project: development of a Resortecs manual disassembly tool for garment repair
Goal : compile past disassembly results using conventional tools (e.g heat gun, soldering iron) from previous interns and brainstorm with the Technical Leads of Resortecs on new repair tool solutions.

YOUR PROFILE

- You are a final year Engineering student with a focus in materials science engineering, mechanical engineering, product design engineering, textile engineering, or equivalent.
- You are well versed in Excel and statistics and are familiar with Design of Experiments methodologies.
- You are hands-on and perseverant in nature, result oriented and have a pragmatic mindset.
- You are meticulous and have an interest in experiments and testing.
- You are confident and independent fast learner, can work under pressure and tackle challenges on your own.
- You have very good communication skills in English, French is a plus.
- You have strong PC/Mac literacy.
- You want to have a positive impact on society and nature.

OUR OFFER

- Rapid personal growth and learning curve in a highly innovative field with networking opportunities and global clients.
- A dynamic and challenging start-up environment: you will be part of a FUN, motivated, young and international team that is leading the transition towards the circular economy!

You want to apply? Send your CV and cover letter to daphne@resortecs.com