



Internship offer

Life Cycle Assessment engineering in chemical sector

Start date: ASAP

Education level: Master degree in science or engineering with specialisation in the environment

Gratuity: 1000€ gross monthly

Duration: 6 months

Location: Lambersart, Lille, France

Keywords: European project, Life Cycle Assessment, Chemistry, Culture heritage sector

Who are we?

WeLOOP is an engineering and consulting company based in Hauts-de-France, specialising in assessing, understanding, and improving the environmental, social, and economic performance of products, services and processes. WeLOOP supports stakeholders in defining their strategy, developing their action plan, and implementing Life Cycle Management and Circular Economy in their organisation.

Growing in a small company

The company is made up of a few employees, so trainees are an integral part of the structure, and their ideas and opinions are welcome and considered in discussions. The flexibility of the company and the interest in initiatives allows for value to be added to proposals.

Context

Within the **Moxy Project** (a Horizon Europe project) with numerous international partners (including art conservators and museum), the environmental, social, and economic sustainability of an innovative device, used for the conservation of Cultural Heritage is assessed. Cultural heritage objects, such as statues and artworks, that are contaminated by organic materials (e.g. due to pollution, fires, or vandalism) need to be cleaned, whereas traditional cleaning methods using organic solvents can harm the art object and can be toxic for the art conservator. The innovative technology developed within the Moxy project is based on the creation of atomic oxygen, that interacts with the organic contaminant. A first environmental hotspot analysis has been conducted, and now the environmental performance of the device will be compared with alternative cleaning strategies via a Life Cycle Assessment, which will be the main activity of the internship candidate.

Responsibilities

- Formulation of scenarios for alternative cleaning strategies for the preservation of artworks, in collaboration with the project partners
- Data collection from scientific and grey literature and from project partners about various cleaning strategies
- Modelling of different cleaning strategies in LCA software (Simapro)
- Comparison of the environmental impacts of the different cleaning strategies
- Interpretation of results, conducting sensitivity analyses
- Writing of a report and contributing to a scientific paper
- Contribution to other ongoing projects and day-to-day business activities of WeLOOP

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SARL au capital de 10 000 Euros - R.C.S. Lille Métropole 830 184 420 - TVA intercommunautaire FR 90 830184420



Requirements

- Higher education, specializing environmental sustainability with basic notions of thermodynamics
- Fluency in English, written and oral
- Team player, to be able to work autonomously and dedicated

How to apply? Send your resume and a cover letter at info@weloop.org