## ECPM Industrial Mission - Sustainable Development g±áZ

## ÑÇ Finding solutions to environmental transition issues

## Helping companies to innovate by overcoming technical or technological obstacles in the fields of the environment, chemistry and materials is the objective of the industrial mission.

A team of 6 to 8 student-engineers carries out a detailed analysis of your problem, defines a work plan, carries out bibliographical research, draws up functional specifications, searches for and/or designs solutions and recommends the most relevant ones to you during numerous individual and collective work phases.

All of this work favours a multidisciplinary approach in close collaboration with your team dedicated to the mission in the form of regular working meetings at a distance, at the school, or at your premises.

**An educational exercise in technical problem solving**, each industrial mission is supervised by three tutors to ensure the successful completion of your project:

* Technical tutoring by your teams
* Scientific tutoring by a teacher-researcher from the school
* Managerial mentoring by a practising professional

**Examples of issues addressed:**

* Research into solutions for the recovery of metals from electronic waste
* Development of eco-designed surface cleaner formulations
* Research and selection of bio-sourced and biodegradable materials
* Optimising the environmental impact of a chemical synthesis
* Determination of options for valorisation of manufacturing co-products
* Technical comparison of composite recycling technologies
* Carrying out process and product LCAs
* Improving the life of a material by studying the structure-properties relationship

**Implementation period**: 6 months between the beginning of mid Sept 2023 and mid-March 2024

**Duration**: 400 hours with 7 group work sessions of 3.5 hours

**Deliverables**: written report and oral presentation

**Participation in the costs**: a participation in the pedagogical costs (supervision, travel on site, use of software, access to databases, etc.) of a total amount of 2,850 € excluding VAT will be invoiced to you (amount exempt from VAT).

Any costs for supplies, handling, prototyping or subcontracting will be borne entirely by the company and will be subject to a specific quote.

**Subject sheet to be returned to** [**patrick.filizian@unistra.fr**](mailto:patrick.filizian@unistra.fr) **by 13 July 2023 at the latest.**

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| **YOUR SUBJECT | 2024 edition** | | | |
| **Heading / title** | |  | |
| **Context of the mission** | | (Describe in a few lines the technical and economic environment of your project) | |
| **Description**  **of the**  **technical problems** | |  | |
| **Your expectations**  **for this mission** | |  | |
| **Project focus** | | **□** Searching for concepts  **□** Feasibility study  **□** Process research | **□** Process optimisation  **□** Improvement of existing solution  **□** Comparative analysis |
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| **Your contact details** | | | |
| **Company** |  | | |
| **Address** |  | | |
| **Last name / first name** |  | | |
| **Function** |  | | |
| **Tel** |  | | |
| **Email** |  | | |

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| **Date :**  **Signature** | **Company stamp** |