The main objective of the ECPM industrial mission is to help companies to innovate in overcoming technical and technological barriers in the fields of environment, chemistry and materials science. The industrial mission is part of the teaching module "Design and innovate collectively".

## The industrial mission is a problem-solving pedagogical exercise run by a student team of 6 to 8 engineering students, including a project manager.

## Your team will analyze your technical issue, define a work plan, make a bibliographical study, draft specifications, search and select the most suitable concepts and study their technical and economic feasibility.

## The issues can concern all the departments of your company: production, quality control, research, development, sales, maintenance…

All of this work, which gives priority to a multidisciplinary approach, is done in close collaboration with your teams. Regular meetings are organised at the ECPM, at your office or remotely.

The team is supervised and coached by:

* your enterprise regarding technical aspects
* a university professor/researcher regarding scientific aspects
* a professional regarding managerial aspects

**Examples of issues**

Definition of a method for measuring the hygrometry of chemical products

Selection of ultrafiltration systems used in laboratories

Benchmarking and selection of recycling methods for chemical compounds (plastics, solvents, metallurgical waste)

Definition of a dosage procedure in an industrial project and selection of the appropriate equipment

Study of a traceability system of raw materials in production

Selection of coating products to enhance the characteristics of fabrics

Design of electrolytic deposition equipment

Selection of materials to optimize the weight / resistance ratio of an object

Search and selection of technical solutions to dose and disperse solids into polymer compound

**Time period**: 6 months - from mid Sept to the end of March

**Duration:** 500 to 600 work hours, including 7 collaborative work sessions of 3.5 hours each

**Evaluation**: written report and oral presentation

**Participation to costs**:a fee of 2.850€ is requested for the industrial project (including supervision, travel expenses, use of software, access to bibliographical databases, etc. – Exempted from VAT).

Any other provision of service will be estimated.

**YOUR ISSUE for the 2021 edition**

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| --- | --- |
| **Title** |  |
| **Context**  (Please describe the technical and economic environment of your issue) |  |
| **Description of your technical issue** |  |
| **Your objectives** |  |
| **Major focus**  **□** Concept search  **□** Feasibility study  **□** Research of processes | **□** Process optimization  **□** Improvement of an existing solution  **□** Technical benchmarking |
|  | |
| **Coordinates** | |
| Company name |  |
| Address |  |
| Postcode |  |
| City |  |
| Your name |  |
| Your position |  |
| Tel. |  |
| Email |  |

Date

Signature

**Please send this form until July 13 2020 to Patrick Filizian (patrick.filizian@unistra.fr)**