

# LABORATOIRE D'AUTOMATIQUE, DE GÉNIE DES PROCÉDÉS ET DE GÉNIE PHARMACEUTIQUE

LAGEPP / UMR 5007

Le Laboratoire d'Automatique, de Génie des Procédés et de Génie Pharmaceutique (LAGEPP) est un laboratoire multidisciplinaire qui couvre les domaines du génie des procédés, de l'automatique, du génie des produits, du génie pharmaceutique et de la physicochimie.

Les activités de recherche s'orientent autour de deux grands thèmes scientifiques :

- > Procédés et processus physicochimiques en milieux complexes dispersés et évolutifs (procédé d'élaboration de nanoparticules, cristallisation, lyophilisation).
- > Modélisation dynamique, observation et commande des procédés.



Laboratoire  
d'automatique,  
de génie des procédés,  
et de génie pharmaceutique.

## LA FORMULATION, LES PROCEDES ET LEUR COMMANDE AU SERVICE DE LA RECHERCHE ET DE L'INDUSTRIE

### LE LAGEP EN UN COUP D'OEIL

#### THEMATIQUES

- > Commande des procédés
- > Formulation de principes actifs
- > Elaboration du solide particulaire
- > Modélisation structurée et commande de procédés

#### MOTS CLES

- > Encapsulation
- > Vectorisation
- > Emulsions
- > Nanoparticules
- > Galénique
- > Cosmétique
- > Automatique
- > Procédés de séparation
- > Réacteurs chimiques
- > Elaboration du solide
- > Modélisation dynamique

#### DOMAINES D'APPLICATION

- > Cristallisation
- > Technologies Pharmaceutiques
- > Energie
- > Séchage
- > Lyophilisation
- > Cosmétique
- > Physicochimie des colloïdes

#### CONTACT

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# LABORATORY OF AUTOMATIC CONTROL, CHEMICAL AND PHARMACEUTICAL ENGINEERING

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The Laboratory of Automatic Control, Chemical and Pharmaceutical Engineering (LAGEPP) involves a multidisciplinary approach to the development and the control of fabrication processes towards an optimal control over end use properties.

It offers an integrated multidisciplinary research at the interface of Engineering and Health Sciences covering several areas of expertise (process control, chemical engineering and pharmaceutical technology) from the academic research aiming at the understanding of fundamental physicochemical phenomena and their modelling, the mastery of processes and the related materials, and finally going to applied research in partnership with industry. The main fields include process control, optimal command, dynamic modelling, pharmaceutical and cosmetic formulation and technology; it is applied to many domains such as pharmaceuticals, cosmetics, energy, chemistry and food.



Laboratory of  
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## THE FORMULATION, THE PROCESSES AND THEIR CONTROL IN THE SERVICE OF THE RESEARCH AND OF THE INDUSTRY

### THE LAGEP LAB AT A GLANCE

#### TOPICS

- > Pharmaceutical Engineering
- > Solid Engineering
- > Process Dynamics and Control of Systems of Conservation Laws
- > Non-linear Systems and processes

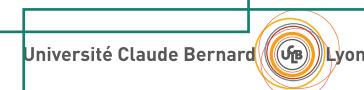
#### KEYWORDS

- > Encapsulation
- > Targeting
- > Emulsions
- > Nanoparticles
- > Pharmaceutical technologies
- > Cosmetics
- > Diagnostic
- > Therapy
- > Process control
- > Simulation
- > Identification
- > Separation processes
- > Chemical reactors
- > Crystallization
- > Precipitation
- > Drying, freeze-drying

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