

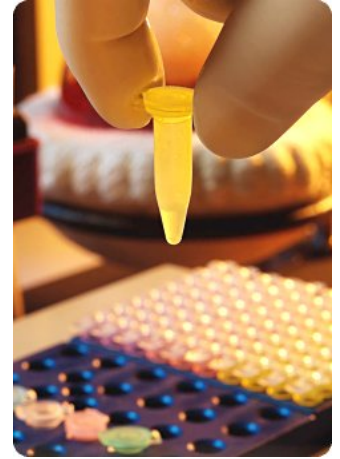
# Master Analytical Science

Claude Bernard University - Lyon 1



## Analysis Science, a large field of knowledge

- ▶ Environment
- ▶ Pharmacy and medicine
- ▶ Food industry
- ▶ Forensic Science
- ▶ Material and technology



## Jobs in Analytical Science

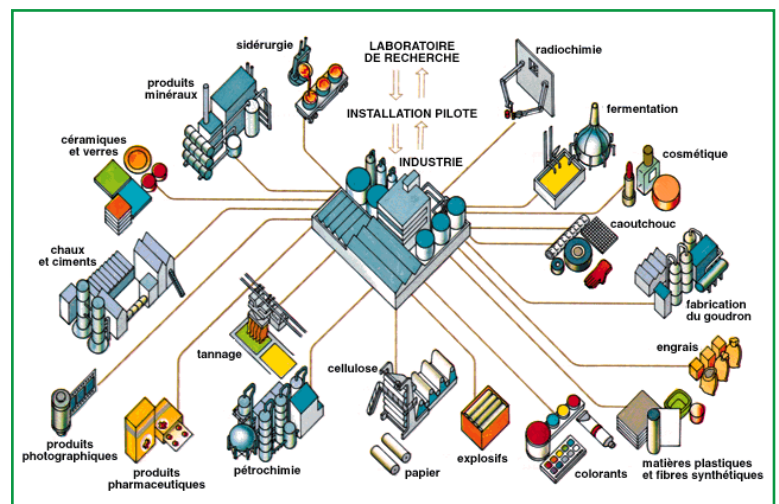
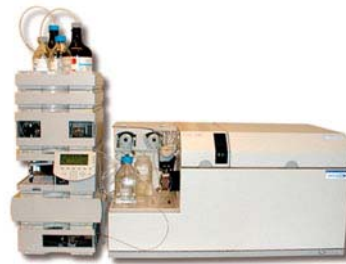
Research and Development

Manager in the analysis laboratory  
Quality control  
industrial process control

Technology application

Pre-sale manager

Forensic Science



## Three main courses

**Analytical Sciences**  
**Physical Analysis**  
**Forensic Science**

## To build his student program

The master « analyze and controls » includes students having a chemistry, biochemistry, physics or health graduate level for a two years formation.

From the large application set of the analytical sciences, the academic organization is divided in in different courses. Thus, a greatest part includes specific analytical sciences (80%), all students following this Chemistry Specialist Program. A second part (20%) is chosen by the student according to his preferences and his professional goal.

### M1

Credits Programs

6	Separations
6	Atomic Spectrometry
6	Nuclear Magnetic Resonance and Mass spectrometry
3	Ultraviolet and Infrared spectrometry
3	Signal processing
3	Advanced Signal processing
6	Activation analysis
3	Structural Analysis
3	Validation
3	Quality Assurance and Quality Control
9	Training course, Knowledge of analytical jobs
3	English (scientific report, publication, poster...)
3	Communication
6	Chemical equilibria

### M2

Credits Programs

3	Complex samples, treatment, coupling
3	Advanced separations
6	Surface analysis
3	Polymer analysis
3	On-line analysis
3	Bioanalysis
3	Biomedical applications of radionuclides
3	Chemometrics
3	Data analysis
6	Electrochemistry
3	Mechanical methods
6	Optics, laser, imaging
3	Advanced spectrometry
6	Communication and Management
3	Laboratory Management
3	Judicial aspect
3	Genetic
6	toxicology, medecine, odontologie
6	Trace analysis, sampling
3	Case studies
24	Training course

For the students having a master level, we propose a special one year study in the master.

## Inquiries and registrations

### Secrétariat Master Analyse et Contrôle

Laboratoire des Sciences Analytiques

Bâtiment CPE

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69622 Villeurbanne

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