



Improve your studies in a truly international environment

1 year of classes + 6 months of research project

Study with the best experts in the field

Classes in English

Improve your English and learn new languages

Work with other students from all countries of the world

Choose your lectures from a wide range of optional modules

Get a highly valued degree, recognised in several european countries

You can apply for an *Erasmus Mundus* Studentship

Contacts:

Secretaria de mestrados
Faculdade de Ciências e Tecnologia
Universidade do Algarve
Campus de Gambelas
8005-139 Faro
Portugal

email: mestradosfct@ualg.pt

European Master in



Quality in Analytical Laboratories

A master course for Scientists and managers;

Specialize in:

- Water analysis
- Food analysis
- Clinical analysis



European Master in Quality in Analytical Laboratories



Why this Master?

Because analytical laboratories play a crucial role in modern societies:

- analysis of food and drinking water affect the health of whole populations;
- **medical decisions** depend on the results of clinical analysis;
- **environmental assessment** is performed through chemical analysis, which is decisive for **pollution control**;
- even court trials are more and more dependent on the result of **forensic analysis**;
- the economic value of goods, like metal ores and oil, is decided based on chemical analysis, and in this way the reliability of the analyses performed affects not only local trade, but also the world economy.

Nowadays, laboratories are required to adopt *quality systems* conforming to international standards, in order to assure that results are reliable and comparable worldwide.

EMQAL prepares professionals for analytical laboratories, focusing on laboratory management and quality systems, along with complementing their technical knowledge.

Studentships

The European Commission provides a limited number of grants: **category A** grants for students coming from all countries of the world, except the 27 current EU Member States, the EEA-EFTA states (Iceland, Liechtenstein, Norway) and the candidate countries for accession to the EU (Former Yugoslav Republic of Macedonia, Croatia and Turkey). Eligible students for category A should not have engaged in their main activity (studies, work etc.) for more than 12 months over the last five years in any of the Member States or other participating countries mentioned above. **Category B** grants are provided for students who are not eligible for category A.

How is it structured?

The programme lasts 18 months: one year of classes, which takes place in the host university, and one semester of research project and thesis, in another university of a different country.

The structure of the course was designed so that students acquire the three general skills essential for managing a laboratory successfully: technical, managing and statistical skills. Lectures are organised in three disciplines:



All classes are optional. Students take 30 modules and must fulfill a minimum of 5 modules from each discipline. According to his/her background, each student can choose from a wide range of options fitting his/her professional and personal interests, namely in water analysis, food analysis or clinical analysis.

Where will you study?

The host university rotates every year among the five European participant universities:

- University of Algarve, Portugal
- University of Barcelona, Spain
- University of Cadiz, Spain
- University of Bergen, Norway
- Gdansk University of Technology, Poland.

Students take 60 ECTS (one year of classes) in the host university, and then move to another participant university in a different country for 6 months of research project. Selected students may take part of their research thesis in Central South University, China.

Who can apply?

The main requirements for admission are:

- 1) a strong academic background in appropriate disciplines such as Chemical and Biochemical Sciences, Biological Sciences, Health Sciences or Environmental Sciences;
- 2) demonstrated command of the English language.

Online Applications:

<http://cursos.uaalg.pt/emQal>