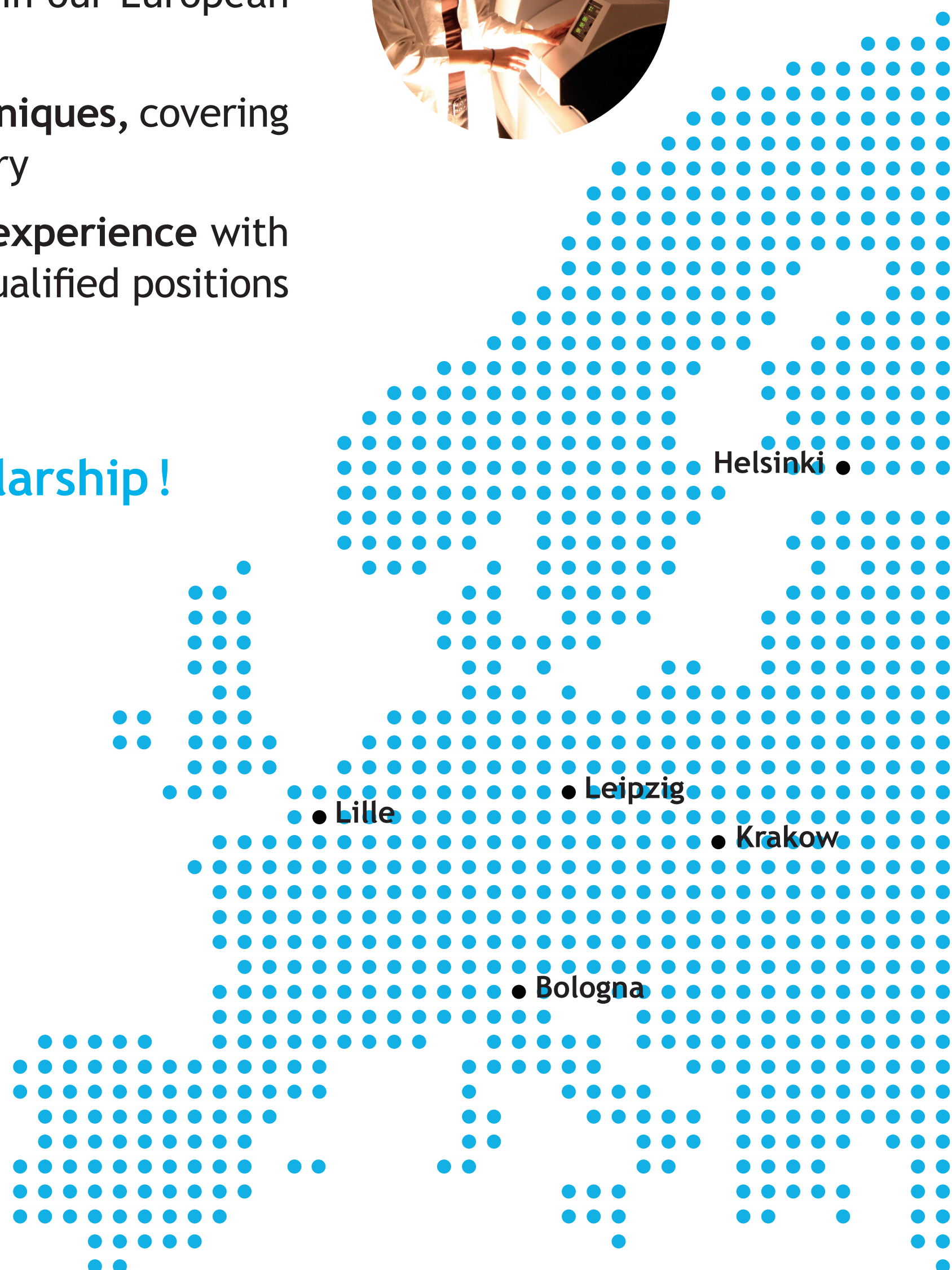


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# EUROPEAN MASTER ADVANCED SPECTROSCOPY IN CHEMISTRY



- Enjoy a two-year Master program within our European network of 5 partner universities
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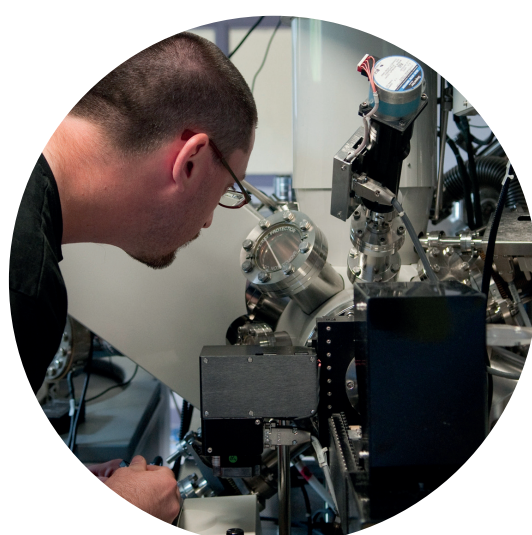


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- Excellent academic records in Chemistry, Bio-Chemistry or Physics
- Adequate mastery of English language

#### Contact :

master-asc@univ-lille1.fr



For more  
information :



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The European Master «Advanced Spectroscopy in Chemistry» is a two-year (120 credits) programme within 5 European universities, providing students with a cross cultural education while getting acquainted with state of the art spectroscopic techniques in a broad range of modern chemistry applications.

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Dr. Marco Giorgetti

Phone +39 05 12 09 36 66

E-mail [marco.giorgetti@unibo.it](mailto:marco.giorgetti@unibo.it)

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Prof. Kristiina Wähälä

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Dr. habil. Malgorzata Baranska

Phone +48 12 633 22 53

E-mail [baranska@chemia.uj.edu.pl](mailto:baranska@chemia.uj.edu.pl)

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Prof. Reinhard Denecke

Phone +49 34 19 73 64 51

E-mail [denecke@uni-leipzig.de](mailto:denecke@uni-leipzig.de)

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UNIVERSITÄT LEIPZIG

### LILLE FRANCE

**University Lille 1**

Prof. Sylvain Cristol

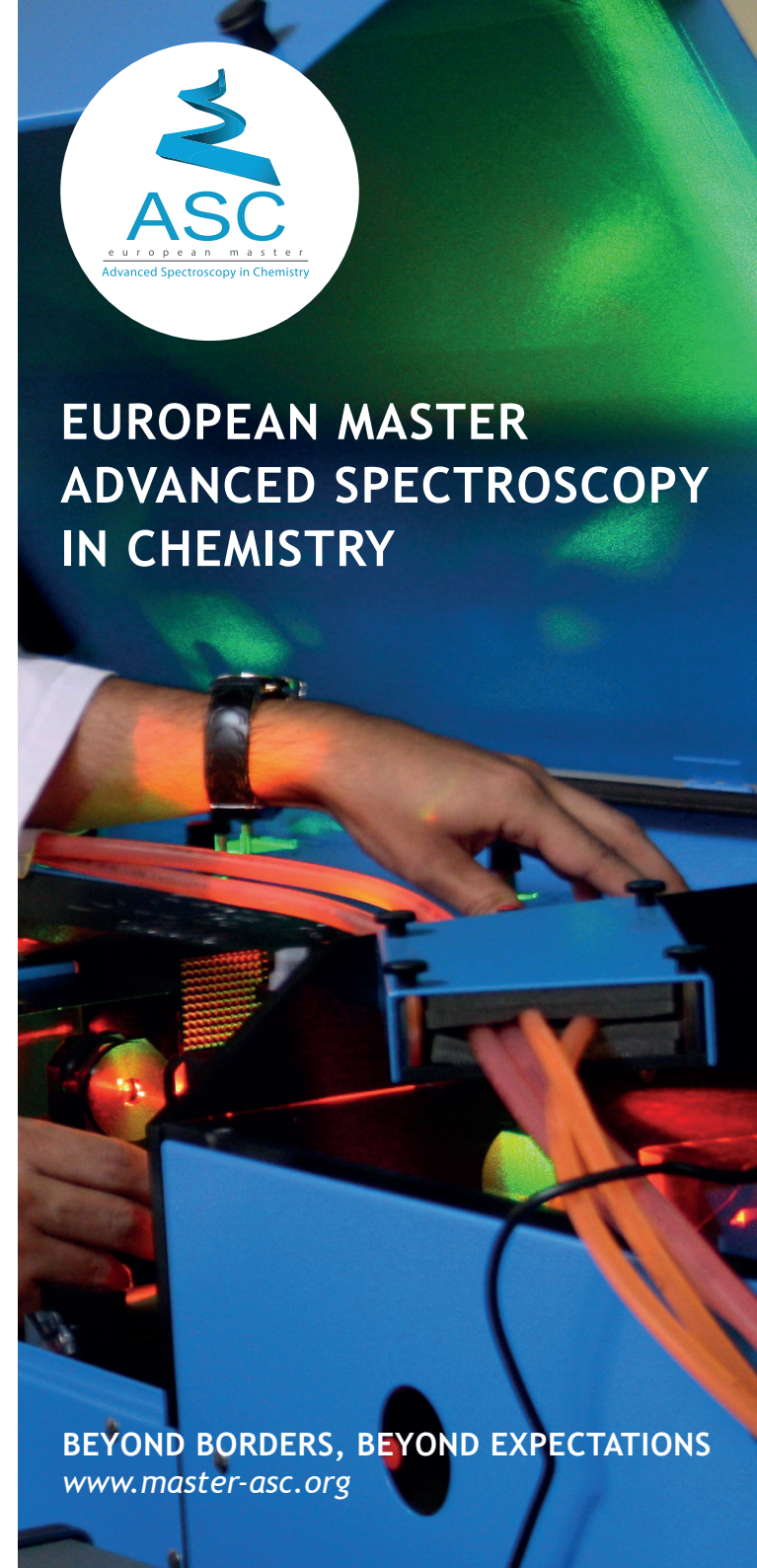
Phone +33 3 20 43 45 03

E-mail [sylvain.cristol@univ-lille1.fr](mailto:sylvain.cristol@univ-lille1.fr)

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# EUROPEAN MASTER ADVANCED SPECTROSCOPY IN CHEMISTRY



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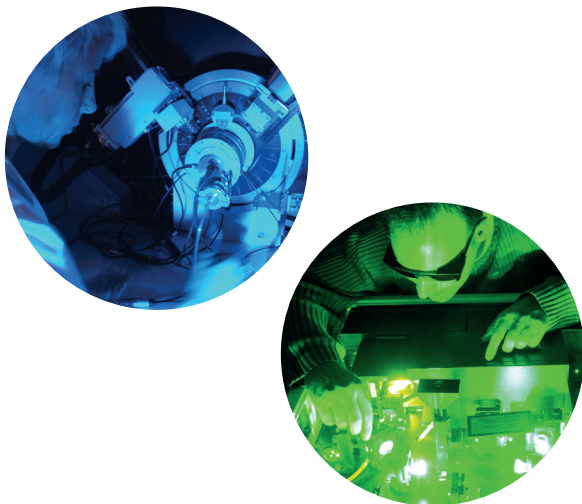
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## TARGETED STUDENTS

Application for admission in the ASC programme is entitled for students holding a Eurobachelor in Chemistry or equivalent education in the field of Chemistry, Biochemistry, Physical Chemistry or Physics. Students from all over the world are welcome to join.

This ASC curriculum is recommended for students with relevant chemical or related experiences, who will benefit not only from an outstanding programme of studies, but also from interactions with classmates of various backgrounds.

The selection of candidates is based on the evaluation of the student's academic records, sufficient mastering of the English language (certified by international tests like TOEFL, IELTS) and will also include a motivated statement of purpose about studying Advanced Spectroscopy in Europe.



## OBJECTIVES

The ASC network aims at preparing students to become experts and develop international skills towards doctoral studies, and/or professional industrial careers in chemical analysis, structure characterization and imaging, process monitoring, and molecular modeling.

A mobility scheme ensures that, in addition to a high level of specialization and access to state of the art techniques, students will complete a common core curriculum of studies in up to three of the five partner universities throughout Europe.

[www.master-asc.org](http://www.master-asc.org)

## CONTENTS

The curriculum consists of :

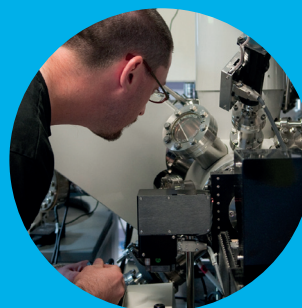
- **Three semesters (30 credits each) of integrated mandatory and optional courses.**

The first semester is dedicated to providing all candidates with a common platform in advanced spectroscopic methods, including magnetic resonance, mass spectrometry, optical spectroscopy and diffraction techniques.

In the second and third semesters, more specialized instruction is provided with applications in molecular synthesis, biology, nanotechnology, modeling, "green chemistry", medicine and new energy sources.

- **One semester for the Master thesis (30 credits) in a research laboratory.**

Students will be encouraged to base their thesis on a collaborative project between two of the partner institutions, thus adding an even more challenging European dimension to the programme.



## PROSPECTS

Students completing this European Master degree with a thesis will be better prepared for European R&D careers in instrument manufactures, spectroscopic laboratories, analytical enterprises or research institutes.

Further scientific progress towards PhD programmes is strongly supported. In fact, 90% of our students have started a career as researchers.

## TYPE OF DEGREE

Master of Science with thesis diploma in «Advanced Spectroscopy in Chemistry» awarded by the universities of the consortium.

Multiple degree diplomas are delivered by the authorities of each partner university where the student has been enrolled.



## APPLICATION PROCESS

For applying, European and non-European students must fill in the on-line application form and follow the instructions available on the website:

[www.master-asc.org/registration](http://www.master-asc.org/registration)

For more information, please contact the administrative officer of the programme:

University Lille 1

**Mrs Francine Chanier**

ASC Master 001, Bât. C15-USTL

59655- Villeneuve d'Ascq cedex - France

Phone: +33 (0)3 20 33 64 36

E-mail: [master-asc@univ-lille1.fr](mailto:master-asc@univ-lille1.fr)

## ASC SCHOLARSHIPS

In order to give the ASC Master course a strong external projection, a scholarship scheme for graduate students (7 000 € / year) is available for highly qualified candidates.

