



International Master Programme “Environment and Resources Management” for Latin American and German Young Professionals

Information and application requirements

Objectives

The general objective of this master programme is to qualify young professionals from Latin America and Germany for a career in the area of environmental sciences and resources management within the context of international cooperation. Its students can acquire up to date knowledge regarding recent technologies, concepts, approaches and methods on sustainable and suitable energy systems, water management, regional planning and land management, waste management as well as the decontamination of soils and other resources management topics.

Practice and Research orientation

The orientation towards practice will be guaranteed through involving a wide range of external experts as invited speakers, through field visits in Mexico and Germany to the private and public institutions and companies, to development cooperation institutions and to international organisations related to the environmental sector. Furthermore, options to realize internships and to conduct the master thesis in collaboration with ongoing projects can be facilitated.

Students of the master programme are explicitly prepared to identify, analyze and solve environmental problems with the aim to formulate and conduct trans-disciplinary basic and applied research in the context of environmental sciences. Science skills and the elaboration of the master thesis topic are fostered since the first semester, culminating in the the master thesis research during the fourth semester. This also qualifies graduates for future PhD studies.

Teaching contents and aims

The four-semester international master programme takes place in Mexico and Germany. Next to basic knowledge regarding environmental sciences and resources management, each student has the option to shape her/his own profile by choosing among several specialized areas and modules (renewable energies, water resources management, regional planning, contamination management, environmental toxicology, land, soil, waste). Successful graduates will have a high level of communication skills allowing them to discuss, present, and negotiate successfully. In addition, they will be equipped with intercultural communication skills, cultural knowledge related to the involved countries and a profound knowledge on international development cooperation institutions and projects. The content of the programme is conveyed by employing diverse didactical methods like group work, problem based learning, and the incorporation of field visits. Furthermore, the acquisition of relevant information and communication technologies will be an important asset of the graduate.

The first two semesters are taught in San Luis Potosí, the third in Cologne while the fourth will be dedicated to the field research and elaboration of the master thesis, which may be related to a running project in Germany or any country in Latin America. Teaching language will be Spanish in Mexico and English in Germany.



The programme is structured through basic and specialized modules accompanied by practical experiences and multidisciplinary seminars and team projects throughout the programme. Each of the two partner universities has a different focus related to the following specialized areas:

- Universidad Autónoma de San Luis Potosí (UASLP), Mexico: Prevention and Control, Environmental Assessment, Renewable Natural Resources, Environmental Management, Environmental Toxicology
- Cologne University of Applied Sciences (CUAS), Germany: Renewable Energies, Integrated Water Resources Management, Regional and Urban Planning and Land Management

Prospective of graduates

Due to their fast socio-economic development in the last decades, the Latin American and the Caribbean Countries (LAC) are confronted with severe environmental problems. The region faces difficult challenges such as population growth, rapid urbanisation and industrialisation processes which require the establishment of efficient environmental policies and programmes on sustainable management of natural resources.

Graduates of the international master programme will be prepared for a high-level professional performance and to contribute to the environmentally sustainable technological development. Potential employers are e.g.:

- international cooperation and development institutions
- NGOs
- private sector companies like consultings in the environmental and development sector
- government institutions
- universities and research centres

Master Programme PMPCA: “Programa Multidisciplinario de Posgrado en Ciencias Ambientales” (PMPCA) at Universidad Autónoma de San Luis Potosí (UASLP)

The Multidisciplinary Postgraduate Programme in Environmental Sciences (PMPCA) at the Autonomous University of San Luis Potosi (UASLP) offers postgraduate education with the options to obtain a MSc. as well as a PhD degree.

Central responsible units for the PMPCA are the Faculties of Chemistry, Engineering and Medicine. Further involved departments are the Faculties of Social Sciences and Humanities, the Faculty of Agronomy as well as the Institutes for Metallurgy, Geology and for Research in Arid Land Zones. Main objective of this unique postgraduate programme is the formation of highly qualified professionals and academics able to think in complex environmental systems having developed the ability to integrate their knowledge in a multidisciplinary context. Working together in multidisciplinary seminar projects, the students are confronted with the methodology of the specific scientific approaches of natural, social and engineering sciences.

Further information on the PMPCA Master programme: <http://ambiental.uaslp.mx/pmpca>



Master Programme “Technology and Resources Management in the Tropics and Subtropics” (TERMA) at Cologne University of Applied Sciences

The master programme “Technology and Resources Management in the Tropics and Subtropics” TERMA (MSc) addresses graduates and professionals with an interest to work in the field of natural resources management (water, regional planning, land and energy) in the context of international cooperation. It conveys interdisciplinary competence and knowledge on relevant technologies and resources management strategies under the premise of sustainable development. Next to the technical knowledge on natural resources engineering, economics and management, the course puts a strong emphasis on personal communication, intercultural and management competencies. For this purpose the interdisciplinary team project plays an important role, where students from different disciplines and cultural background work together on a case study

The studies cover a standard period of four semesters. This includes the master thesis research, writing and defence during the fourth semester. Field research usually takes place in a country of the tropics or subtropics.

Further information on the TERMA Master programme: www.tt.fh-koeln.de

Degree

Successful students will receive a **double degree** of the two involved universities:

- Master of Science “Environmental Sciences” (PMPCA) issued by the Autonomous University of San Luis Potosi, Mexico
- Master of Science “Technology and Resources Management in the Tropics and Subtropics” (TERMA) issued by the Cologne University of Applied Sciences, Germany.

Admission requirements

There is a set of minimum requirements that participants have to fulfil. These minimum requirements are:

- have an academic background (minimum Bachelor degree) related to Environmental Management: natural sciences, engineering sciences, geography, agricultural or social sciences
- for Mexican students, an average grade of 8.0 is required in their degree, for other countries an equivalent average
- preferably be under 36 years, in exceptional cases up to 40
- be fluent in English (TOEFL 550 points or equivalent)
- proficiency in Spanish for the German participants
- basic knowledge of German language for Mexican and Latin American participants (advantageous)
- be highly motivated to learn in a multicultural environment



Application

Application deadline is January 31th, 2010.

First phase

The complete set of documents first has to be sent **digitally**.

The following documents must be submitted digitally until January 31th.

- completed and signed application form in English,
- document proving the higher education entrance qualification (Bachelor degree), in Spanish, English or German,
- higher education graduation certificate plus academic record, in Spanish, English or German, with final score obtained. If the certificate has not the final score add an official letter to support the final score,
- explanations of the higher institutions grading system,
- curriculum vitae (in tabular form) in English (please use the "Europass" format: www.europass.cedefop.europa.eu, preferably with photo),
- proof of English proficiency (TOEFL 550 points, IELTS band 6 or equivalent test). If an applicant's first language is English or his/her studies at the university level have been conducted wholly in the medium of English (written proof from the University is required) he/she is exempted from providing an English language proficiency test,
- proficiency in Spanish for German applicants,
- signed formulated project idea on what the applicant would be interested to work on during the master thesis (2 pages) in English,
- two recent letters of reference/recommendation by university teacher(s) and current employer (if applicable).

Please send **your complete application** to the following email-address:

German Applicants: info-enrem@itt.fh-koeln.de

Mexican and Latin American Applicants: pmpca.enrem@uaslp.mx

Application sets shall be handed in as *.doc or *.pdf-files. The application document should be named enrem-application10_name.doc, for example enrem-application10_sandholz.doc.

The complete application set should be send as zip-file in one email named accordingly: enrem-application10_name.zip

Second phase

Shortlisted candidates will receive an interview phone call between February 15th and 19th.

Third phase

Accepted aspirants will be informed after March 22nd and have to confirm their course participation until March 31st. Afterwards candidates have to send their signed acceptance letter and a **hardcopy of the application documents** plus the documents mentioned below to the CUAS and the UASLP by July 1st:

The students of the Master programme will need to hand in the following additional documents for the inscription in San Luis Potosí, Mexico:

- Certified copy of the document proving the higher education entrance qualification (e.g. Abitur) for non-Mexicans with an apostille. If the document is not in Spanish, an authorized translation is required, in this case the apostille must be placed on the translated document;
- higher education graduation certificate plus academic record (certified copy of Bachelor degree), for Non-Mexicans with Apostille. If the document is not in Spanish, an authorized translation is required, in this case the apostille must be placed on the translated document;
- certificate of birth (certified copy), for Non-Mexicans, with an apostille. If the document is not in Spanish an authorized translation is required, in this case the apostille must be placed on the translated document;
- commitment letter that postgraduate studies are conducted in full-time and full availability (free format);
- health certificate;
- copy of IFE (Mexican students);
- copy of FM3 (Migration Applicable Form to Non- immigrants) first page;
- two color photos (2.5 cm wide x 3.0 cm length);

The following additional documents will be required for the inscription in Cologne, Germany:

- certified copy of document proving the higher education entrance qualification (high-school), for Non-Germans: If the document is not in English or German an authorized translation to one of the two languages is required
- higher education (university) graduation certificate (certified copy) plus academic record, for Non-Germans: if the document is not in English or German an authorized translation to one of the two languages is required
- copy of passport (first page)
- two color photos (3,5 wide x 4,5 cm length)

Scholarship holders are expected to start their preparatory phase including a language course beginning of July in San Luis Potosí. Lectures of the first semester will begin mid of August.



Please send your complete application to the following address:

German Applicants:

Ms. Alexandra Nauditt
Cologne University of Applied Sciences
Institute for Technology in the Tropics
Betzdorfer Str. 2
50679 Köln
Germany

Mexican and Latin American Applicants:

Dra. Gabriela Cilia
Programa Multidisciplinario de Posgrado en Ciencias Ambientales
Universidad Autónoma de San Luis Potosí
Ave. Manuel Nava No. 201 Zona Universitaria
(between Finanzas and Estomatología)
C.P. 78210
San Luis Potosí, S.L.P.
México

Scholarships

Scholarships for Latin-American and German applicants are provided jointly by the Mexican National Council for Science and Technology (CONACYT) and the German Academic Exchange Service (DAAD).

Mexican and Latin American applicants may apply for a scholarship from CONACYT for two years, Germans for a scholarship for the time abroad (one year) as well as field research time. No additional application is required provided that the applicant indicates his/her wish to do so clearly under no. 10 of this application.

Contact at Universities:

Alexandra Nauditt
Cologne University of Applied Sciences
Institute for Technology in the Tropics
Betzdorfer Str. 2
50679 Köln
Germany
alexandra.nauditt@fh-koeln

Dra. Gabriela Cilia
Programa Multidisciplinario de Posgrado en Ciencias Ambientales
Universidad Autónoma de San Luis Potosí
Ave. Manuel Nava No. 201 Zona Universitaria
(between Finanzas and Estomatología)
C.P. 78210
San Luis Potosí, S.L.P.
México
gabriela.cilia@uaslp.mx

APPLICATION FORM for the academic year 2010

Please first read the "Information regarding your application & application requirements" carefully. Please write clearly and in block capitals.

1. PERSONAL DATA

Surname

(please, use exactly the same name as in your passport and please underline main name)

First Name(s)

Male Female Academic Title

Date of birth (day/month/year) Place of birth

Country of birth

Married Single Number of children

Country of permanent residence

Mailing address, where you may be contacted at any time

Telephone with area code e-mail

2. HIGHER EDUCATION (UNIVERSITY, BACHELOR OR OTHER DEGREE)

from	to	At (University)	Subject (Title obtained)

Degrees held

Date (dd/mm/yy)	Exact degree title	Subject	Degree Result (grade/final score)

University Grading System

Maximum grade to be obtained		Minimum grade to pass	
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3. SECONDARY SCHOOL EDUCATION (LEAVING SCHOOL/HIGH SCHOOL)

from	to	Type/Name of Examination

Awarded on		Result(s)	
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4. PROFESSIONAL WORK EXPERIENCE

(AFTER COMPLETION OF FIRST DEGREE STUDIES)

Date (from - to)	Country	Company	Position

Main Responsibilities

Date (from to)	Country	Company	Position

Main Responsibilities

Please add an extra page if necessary

5. WHAT PROFESSIONAL CAREER DO YOU ENVISAGE?

6. LANGUAGE SKILLS

Language	Very good	good	fair	poor

ENGLISH PROFICIENCY EXAMINATION (TOEFL 550 POINTS OR EQUIVALENT)

Name of Exam

Date/Place

Result

SPANISH PROFICIENCY EXAMINATION (FOR GERMAN APPLICANTS)

Name of Exam

Date/Place

Result

7. WHAT ARE YOUR EXTRACURRICULAR INTERESTS?

8. A LETTER OF RECOMMENDATION FOR THIS APPLICATION IS/HAS BEEN SUBMITTED BY:

Name

Position

Institution

Phone Email

Name

Position

Institution

Phone Email

9. WILL YOU BE GRANTED LEAVE OF ABSENCE FOR YOUR STAY IN GERMANY?

No Yes (if possible enclose confirmation from your employer)

If so, will the leave be paid? No Yes

10. MOTIVATION

Please state your motivation why you want to study this Master Programme. German students (including students from German speaking countries) are expected to express this in Spanish language, all others in English.

11. FINANCING THE STUDY

Please state how you plan to finance your study

12. HOW DID YOU LEARN ABOUT THE COURSE?

13. DECLARATION (PLEASE READ AND SIGN BELOW)

I certify that the information provided in this application is accurate to the best of my knowledge. Furthermore, I agree to inform ITT or PMPCA immediately of any changes and amendments. The application and accompanying documents will remain with these institutions. Personal data will be stored in the ITT's and PMPCA's computer files only to the extent necessary for the administration of applications and scholarships and in compliance with the "Federal Data Protection Law". Applications of unsuccessful candidates will be destroyed after one year.

I have taken note of the information provided in this application as well as the notice about the storage of personal data. I accept the responsibility for the completeness of my application. I agree that this application and accompanying documents shall remain with the PMPCA and ITT.

Note: This application form will not be accepted without signature

Signature _____ Date _____