

# SOLID WASTE RECYCLING AND THE CIRCULAR ECONOMY

INTERNATIONAL  
PROFESSIONAL MASTER  
PROGRAM FOR



## GENERAL OBJECTIVES:

The primary goal of this new master's degree program is to train professionals, develop knowledge, and provide solutions to the enormous challenges of waste management and pollution control in the context of the circular economy. The studies are designed to prepare graduates for development strategies and appropriate solutions and technologies based on state of the art of knowledge as well as the research for sustainable methods. With these technical and scientific knowledge, graduates can work constructively in the areas of waste management and circular economy, authorities, recycling industries, consulting, operation of waste management services and facilities, project management as well as contaminated sites assessment and remediation, finance institutions and international organizations.

## LIST OF PROFESSIONS TARGETED:

- Material Sorters and Dispatchers- Recycling and Solid Waste Manger - Technology Developers,
- Recycling Product Designers - Making new products using recycled Materials,
- Environmental Project Manager.
- Environmental management controller, Creator of Green Tech start-up.
- Public service executives.
- Waste management and circular economy experts.

## SPECIFIC OBJECTIVES:

Our students will gain:

- An in-depth understanding of modern circular economy models, as well as knowledge of sustainable financial, legal, and technical models for long-term solid waste management,
- The reinforcement of the knowledge on environmental entrepreneurship.
- The vision and targeted skills for developing and implementing long-term and effective solid waste management plans and programs, including international best practices,
- The ability to apply project management principles and project approach in solid waste management programs.
- The ability to assess complex risks in solid waste management



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## BRANCH OF ACTIVITY:

Industrial and service companies  
Environmental and waste management/Circular economy  
authorities  
Consulting offices  
Research centers  
Eco-industries  
Engineering companies  
Technical design offices  
Innovation Technical Centers

## REQUIREMENTS TO ACCESS TO THIS MASTER'S DEGREE

To access to this master, the student should have a  
diploma in one of the following programs:

- Bachelor of Science in Life and Environmental Sciences
- Bachelor of Science in Biotechnology: Health, Food  
Safety, and the Environment course
- Chemistry license
- Bachelor in waste management and circular economy
- Physics and chemistry bachelor's degree
- Environmental sciences degree
- Chemical, process, analytical, energy, and agronomic  
engineers

The number of students in the first year is fixed between  
15 and 20 at most.

## COURSE DESCRIPTIONS :

- Elements of circular economy and sustainable waste  
management
- Financing of waste management and circular economy
- Overview to national and international regulations of  
circular economy and sustainable waste management
- Waste types and international classification
- Solid waste management characterization
- Environmental process engineering
- Waste collection, transportation and storage
- Microbiological and Biological Technologies for  
treatment of organic waste
- Recycling technologies of relevant waste types and  
fractions
- Waste to energy concepts and technologies
- Treatment of residual waste, landfill engineering and  
contaminated sites
- Environmental and analytical Chemistry related to waste  
management and circular economy
- GIS Applications in Environmental and waste  
management
- Emission from waste management processes and  
control
- Hazardous and Special Wastes Management
- Environmental impact assessment in waste management

The submission deadline is

# July 31, 2023



## RESPONSIBLES

### **Local Master Coordinator:**

Prof. Mohamed KSIBI  
Email: mdh.ksibi@gmail.com

### **German Partner coordinator:**

Associate Professor Dr. -Ing. Abdallah Nassour  
Email: Abdallah.nassour@uni-rostock.de

## LANGUAGE:

English  
(first language)

French  
(second language)

## PARTNERS:

- University of Rostock / Department waste and  
resource management Germany
- German-MENA university network for waste  
management and circular economy
- Environmental Bioprocess Laboratory at the  
Centre of Biotechnology of Sfax (CBS),  
Sfax-Tunisia.
- L'Agence Nationale de Gestion des Déchets  
(ANGed), Tunisia

## PRE-REGISTRATION METHODS:

- Google form (Application) : <https://urlz.fr/mdIE>

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- Interview



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