

INFORMAȚII PERSONALE



SUR IOANA MONICA



WORK EXPERIENCE

Technical University of Cluj Napoca  
 Faculty of Materials and Environmental Engineering  
 Department of Environmental Engineering and Sustainable Development  
 Entrepreneurship

POSITION

**University lecturer, position 5**  
 Soil Science;  
 Ecological rehabilitation of degraded areas;  
 Soil remediation technologies and equipment;  
 Ecological rehabilitation of polluted sites;  
 Natural Resources

PROFESSIONAL EXPERIENCE

2018- present **Lecturer**

- Technical University of Cluj-Napoca, Faculty of Materials and Environmental Engineering, Department of Environmental Engineering and the Sustainable Development Entrepreneurship, 103–105 Muncii Avenue, 400 641, Cluj–Napoca, Romania, <https://imadd.utcluj.ro/>
- *Disciplines taught:* Ecology (Course/Seminar); Marketing of ecological products (Course/Seminar); Circular economy engineering (Course+Seminar); Environmental quality monitoring systems (Course+Seminar); Advanced procedures for the remediation of contaminated soils (Laboratory); Ecological rehabilitation of polluted sites (Course/Laboratory); Soil depollution technologies and equipment (Project/Laboratory)
- [Teaching and research activities](#)

2011 – 2018 **Asisstant professor**

- Technical University of Cluj-Napoca, Faculty of Materials and Environmental Engineering, Department of Environmental Engineering and the Sustainable Development Entrepreneurship, 103–105 Muncii Avenue, 400 641, Cluj–Napoca, Romania, <https://imadd.utcluj.ro/>
- *Disciplines taught:* Soil science; Soil remediation technologies and equipment; Ecological rehabilitation of polluted sites; Advanced remediation procedures for co-contaminated soils; Environmental impact assessment; Renewable energy systems; Integrated management of water resources; Environmental science; Integrated pollution control; Basics of sustainable energy; Anthropogenic pollution, natural and technological risk; Management of natural resources; Quality engineering; Occupational health and safety; Eco-responsible entrepreneurship.
- *Research projects:*  
 "Optimization of the bioleaching process for the extraction of metals from polluted soils" - BIOSOLIX", Research contract no. 1990/12.017.2017, CICDI-2017 Internal Competition – Project Director (2017–2018);  
 "Innovative ex-situ bioremediation technology of hydrocarbon-polluted soils - BIORESOL", Research contract no. 91/2014 PN-II-PT-PCCA-2013-4-1717 - Scientific researcher - CS III (2014-2017)
- [Teaching and research activities](#)

## EDUCATION AND TRAINING

November 2020

## Certificate of completion

- SC Formarom SRL, Zalău, Sălaj
- Responsible for the environment, COR code 325710
- Initiation / improvement / specialization program lasting 60 hours

2008 – 2011

## PhD in Materials Engineering

EQF 7

- Technical University of Cluj-Napoca, Faculty of Materials and Environmental Engineering, Department of Environmental Engineering and the Sustainable Development Entrepreneurship
- PhD thesis title: *Research on the extraction of heavy metals by in situ bioleaching from polluted soils*
- Scientific leader: prof. univ. dr. ing. Valer MICLE

2008 – 2009

## Masters

EQF 6

- Technical University of Cluj-Napoca, Faculty of Materials and Environmental Engineering, Department of Environmental Engineering and the Sustainable Development Entrepreneurship
- Domain: Environmental Engineering
- Specialization: Special Procedures in Environmental Protection
- The title of the dissertation: *Studies and research regarding the establishment of the "in-situ" remediation technology of soils contaminated by the specific activities of the metallurgical industry*

2003 – 2008

## Engineer diplomat

EQF 5

- Technical University of Cluj-Napoca, Faculty of Materials and Environmental Engineering, Department of Environmental Engineering and the Sustainable Development Entrepreneurship
- Domain: Environmental Engineering
- Specialization: Engineering and environmental protection in the industry
- Title of the bachelor thesis: Study on household waste storage in the municipality of Zalău and the design of a modern ecological landfill.

2003 – 2008

## Certificate of completion

- Technical University of Cluj-Napoca, Department for the training of teaching staff, str. C. Daicoviciu, no. 15, Postal code 400020, Cluj-Napoca, Romania, www.utcluj.ro
- *Disciplines studied:* Psychology of education, Theory, and methodology of curriculum, training and evaluation, Computer-assisted training, Student class management, Pedagogical practice

## ADMINISTRATIVE ACTIVITY

2018, 2023

## CNFIS Reporting Manager at the IMADD Department

- Data reporting research activity/artistic creation/sports performance
- Collecting, centralizing, and entering data from the IMADD department of the Technical University of Cluj-Napoca

2018, 2022, 2023

## Member of the Periodic Institutional Evaluation (ARACIS) file preparation team

- Data collection and centralization for the institutional evaluation of programs
- Bachelor of Engineering and Environmental Protection in Industry in the field of Environmental Engineering
- master: 4 programs in the field of Environmental Engineering

- 2022 **Human Resource Assessment for Research (HRS4R)**
  - Research activity data reporting
  - Collecting, centralizing, and entering data from the IMADD department of the Technical University of Cluj-Napoca
  
- 2018 – present **Member of the organizing committee for student competitions**
  - Promotion and preparation of competitions organized for students in the field of Environmental Protection:
    - SIMTECH-Junior
    - SIMTECH-Lab
    - SIMTECH
  
- 2018 – present **Member of the commission for finalizing university master's studies**
  - Technical University of Cluj-Napoca, Faculty of Materials and Environmental Engineering
  - Department of Environmental Engineering and Sustainable Development Entrepreneurship
  - Specialization: - Integrated Management of Natural Resources and Waste
    - Law Engineering and Environmental Economics
  
- 2017– present **Secretar în comisia de admitere - studii universitare de masterat**
  - Technical University of Cluj-Napoca, Faculty of Materials and Environmental Engineering
  - Domain - Environmental Engineering
    - Applied Engineering Sciences
  
- 2016 – present **Responsible for scheduling**
  - Elaboration of the timetable within the IMADD department for all master's specializations
  
- 2014 – present **Member of the admission committee - undergraduate and master's degree studies**
  - Technical University of Cluj-Napoca, Faculty of Materials and Environmental Engineering
  - Domain - Environmental Engineering
    - Applied Engineering Sciences
  
- 2014 – 2022 **Secretary in the commission for finalizing university master's studies**
  - Technical University of Cluj-Napoca, Faculty of Materials and Environmental Engineering
  - Department of Environmental Engineering and Sustainable Development Entrepreneurship
  - Specialization: Advanced Procedures in Environmental Protection
  
- 2011 – present
  - **Study advisor**
  - Specialization: Engineering and Environmental Protection in Industry (license program)
  - Specialization: Advanced Procedures in Environmental Protection (master program)

**PERSONAL SKILLS**

Mother tongue(s)

Romanian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
Franceză	A2	A2	A2	A2	A2
	Certificate of language competence for French .				
Engleză	A2	B1	A1	B1	A2

Levels: A1/2: Basic user - B1/2: Independent user - C1/2 Proficient user  
Common European Framework of Reference for Languages

- Communication skills**
- Good communication skills acquired in the position of head of university works, member of the research projects of which I am a part, study advisor at bachelor's and master's level, and secretary of the committee for completion of university master's studies
  - Ability to adapt to new situations
  - Good organizational and control capacity - acquired through activities as a member of the research and institutional projects
  - The ability to interact and understand young people - acquired as a result of the activity within the courses organized within the project "The Open University - counseling and support for career development, in the spirit of social equity, through the lens of student-centered education (The Open University)" - CNFIS-FDI-2021-0270

- Organizational/managerial skills**
- I coordinate students and master's students in bachelor's and dissertation works, working in a team, and each activity carried out is well divided so that the results are valued.
  - Every year, as a study advisor, I facilitated the student's access to certain companies/agencies for the internship and then followed the way these activities were carried out
  - I carry out annual study visits with students to research centers (ICIA, MINESA), to companies/agencies with specific environmental protection (Environmental Agency, Environmental Guard, Company of aaa, Osmosis Station, Wastewater Treatment Plant), having good communication relationship with them

- Skills acquired in the workplace**
- researcher skills
  - creating didactic materials
  - creation and editing of specialized publications
  - evaluation of specialized publications
  - development of the "Soil Analysis and Quality" laboratory
  - skills regarding the preparation and analysis of heavy metals in soil/water/vegetables using an atomic absorption spectrometer: Shimadzu AA-6800

- Computer skills**
- Good knowledge of Microsoft Office™ tools

- Driver's license**
- Category B

## ADDITIONAL INFORMATION

### Publications

- 1 doctoral thesis: *Research on the extraction of heavy metals by in situ bioleaching from polluted soils*, 2011
- 1 book: Micle, V., Sur, I.M., *Soil science – Laboratory guide*, UT Pres Publishing House, Cluj-Napoca, 93 pages, ISBN 978-973-662-724-8, 2012
- 92 scientific works published: 31 articles in ISI journals (13 as main author or corresponding author), 3 articles in ISI Proceedings, 42 articles in BDI journals, and 16 articles in conference volumes
- 1 patent: Micle V., Sur Ioana-Monica, Mitrea M., "*System and process for ex-situ bioremediation of hydrocarbon-polluted soils using Pseudomonas and Bacillus microorganisms*" - RO132554/2023

- Conference**
- 28 participations in national and international conferences

- Projects**
- Project manager:** 1 project
    - BIOSOLIX research project - "*Optimization of the bioleaching process for the extraction of metals from polluted soils*" - project director  
Funding source: CICDI-2017 Internal Competition, Contract no. 1990/12.017.2017  
Budget: 20000 RON  
Results: 2 scientific papers; 4 participations in conferences
  - Researcher/Member in research projects:** 4 projects
    - BIORESOL - "Innovative ex-situ bioremediation technology of hydrocarbon-polluted soils" PNCDI II Project - partnerships in priority areas, Contract 91/2014 - scientific researcher
    - RESOLMET - "Innovative technology for the remediation of soils contaminated by the activities specific to the metallurgical industry" PNCDI II Project - Partnerships in Priority Fields Program, Contract 32161/1.10.2008 - scientific researcher
    - "Recovery and capitalization of residual heat from domestic waste water to improve the energy efficiency of buildings - RenergA," CICDI-2017 Internal Competition, Contract no. 1994/12.017.2017 – a member of the research team
    - The research project "Innovative sound-absorbing materials based on non-metallic waste used to make acoustic panels" Internal Competition CICDI-2017, Contract no. 1992/12.017.2017 – a member of the research team
  - Member in institutional projects:** 3 projects
    - "Supporting students at risk from the Faculty of Materials and Environmental Engineering for a career in engineering" (SUCCESIMM) – Project code: AG229/SGU/NC/II (Romanian Secondary Education Project – ROSE) - member Education Expert
    - "Advanced practice for success in an ENGINEERING career - PAVING", Project code: POCU/626/6/13/130354, Project co-financed by the European Social Fund through the Human Capital Operational Program 2014-2020 - Expert Assistant target group
    - "The Open University - counseling and support for career development, in the spirit of social equity, through the lens of student-centered education (The Open University), CNFIS-FDI-2021-0270 Project - Mentor
- Awards**
- Diploma of excellence and Excellence Innovation Award, EURO INVENT 10 EDITION, Iasi, 2018; GOLD MEDAL, INVENTICA 2018, Iasi;
  - Diploma of Achievement and Gold medal, INVENTICA 2020, Iasi
  - Diploma and Gold Medal, "Traian Vuia" International Exhibition of Inventions and Innovations 2020, Timișoara
  - Diploma of Excellence and Gold Medal, PRO INVENT, 2020, Cluj-Napoca
- Scientometric indicators**
- Citations: 139
  - Index Hirsch: Google Scholar – 8; Scopus - 6; Web Of Science – 6
- Reviewer**
- Reviewer for journals: Sustainability; Land; Toxics; Plants, International Journal of Environmental Research and Public Health, Materials, Agriculture, Separations, Processes, Microorganisms, Horticulture, Land, Methods and Protocols; Agronomy, Forests

**ANNEXES**

- List of scientific papers

Cluj-Napoca, 30.05.2023

Ioana Monica SUR

