



## PERSONAL INFORMATION



## FRÎNCU MARIAN-IOSIF

 Babeş-Bolyai University of Cluj-Napoca, Faculty of Chemistry and Chemical Engineering, Department of Chemical Engineering, Strada Arany János, number 11, 400028, Cluj-Napoca, Romania

 0740400247

 marian.frincu@ubbcluj.ro / frincu.marian23@gmail.com

 <https://www.linkedin.com/in/marian-iosif-fr%C3%AEncu-18544a200/>

Sex M | Date of birth 23/03/1993 | Nationality Romanian

WORK BABEŞ-BOLYAI University, Mihail Kogălniceanu no. 1, Cluj-Napoca, RO-400084

THE POSITION **Engineer II**

## PROFESSIONAL EXPERIENCE

[ 12/12/2022 – in progress ]

**Engineer II**

Babeş-Bolyai University, Faculty of Chemistry and Chemical Engineering, Cluj-Napoca, Romania

Main activities and responsibilities:

- preparation and maintenance of didactic laboratories for the discipline: Thermal transfer and thermal devices;
- responsible for carrying out activities in conditions of full security and labor protection and fire prevention within the laboratory;
- laboratory maintenance;
- didactic activities in the discipline: "Electronics and electrotechnics".

The type or sector of activity Academic

[ 01/09/2022 – 12/12/2022 ]

**Engineer**

Babeş-Bolyai University, Faculty of Chemistry and Chemical Engineering, Cluj-Napoca, Romania

Main activities and responsibilities:

- preparation and maintenance of didactic laboratories for the subjects: Unit operations with mass transfer and Fluid mechanics and momentum transfer;
- responsible for carrying out activities in conditions of full security and labor protection and fire prevention within the laboratory;
- laboratory maintenance.

The type or sector of activity Educational activities

[ 16/10/2018 – 30/08/2022 ]

**Research Assistant**

Babeş-Bolyai University, Faculty of Chemistry and Chemical Engineering, Cluj-Napoca, Romania

Main activities and responsibilities:

- scientific research;
- chemical analyses;
- Electronics and Electrotechnical laboratory activities.

The type or sector of activity Educational activities

[ 03/10/2017 – 01/10/2018 ]

**Production engineer**

SC Switch Technology Gunther SRL str. Gh. Bariţiu, nr 30, Blaj, România

Main activities and responsibilities:

- head of the Metal Coating Section;
- analyzes of metal coating bath parameters;
- responsible for waste;
- dangerous substances monitoring;
- technological process monitoring.

The type or sector of activity Production and distribution of electronic components

[ 16/11/2016 – 09/06/2017 ]

**Environmental Engineer**

SC IAMU SA, str. Gh. Barițiu, nr 38, Blaj, România

Main activities and responsibilities:

- drawing up documentation;
- responsible for waste;
- training new employees;
- determination of analyses;
- steel carbon determination.

The type or sector of activity Company of accessories for machine tools

## EDUCATION AND TRAINING

[ 01/10/2022 – 01/07/2023 ]

**Psychopedagogical training program (Level 2)**

Babeș-Bolyai University, Department for Teaching Staff Training, Cluj-Napoca, Romania

Professional skills covered:

- teaching of the specialty;
- teaching practice;
- the psychology of education.

The level in the national or international classification: Certificate of graduation from the Psychopedagogical Training Program (Level 2)

[ 01/10/2021 – 01/07/2022 ]

**Psychopedagogical training program (Level 1)**

Babeș-Bolyai University, Department for Teaching Staff Training, Cluj-Napoca, Romania

Professional skills covered:

- management of the class of students;
- computer-assisted training;
- evaluation theory and methodology.

The level in the national or international classification: Certificate of graduation from the Psychopedagogical Training Program (Level 1)

[ 01/10/2018 – in progress ]

**PhD student**

Universitatea Babeș-Bolyai, Facultatea de Chimie și Inginerie Chimică, Școala doctorală de Inginerie chimică, Cluj-Napoca, România

Professional skills covered:

- the methodology of developing research projects in chemical engineering;
- advanced chemical engineering;
- research methods in electrochemical engineering.

The level in the national or international classification: ISCED Level 8

[ 01/10/2016 – 01/07/2018 ]

**Master's Degree / Environmental Engineer**

"1 Decembrie 1918" University, Faculty of Exact Sciences and Engineering, Specialization: Environmental Assessment, Monitoring and Audit, Alba Iulia, Romania

Professional skills covered:

- evaluation of the ecological impact on the environment;
- waste management;
- environmental audit;
- ISO 14001 integrated system.

The level in the national or international classification: ISCED Level 7

[ 01/10/2012 – 01/07/2016 ]

**Bachelor Degree / Environmental Engineer**

"December 1, 1918" University, Faculty of Exact Sciences and Engineering, Specialization: Environmental Engineering, Alba Iulia, Romania

Professional skills covered:

- waste water treatment and recovery;
- pedological studies;
- meteorology;

© Uniunea Europeană, 2002-2013 | <http://europass.cedefop.europa.eu>

- ecology;
- material resistance;
- environmental chemistry.

The level in the national or international classification: ISCED Level 6

[ 15/09/2008 – 15/06/2012 ]

**Baccalaureate diploma / Technician in economic activities.**

"Dionisie Pop Marțian" Economic College, Alba Iulia, Romania

Professional skills covered:

- accounting;
- management;
- technician in economic activities.

The level in the national or international classification: ISCED Level 3

[ 01/09/2000 – 01/06/2008 ]

**Secondary studies**

School with classes I-VIII Benic, Galda de Jos, Alba, Romania

Professional skills covered:

The level in the national or international classification: ISCED Level 2

**PERSONAL SKILLS**

Mother tongue(s)

Romanian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	A1	A1	A1	A1	A1
French	A1	A1	A1	A1	A1

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

Social skills and competences

**Social skills and competences**

- realistic and ambitious motivation;
- professional training skills;
- ability to analyze and synthesize data and information, attention to details;
- openness to new experiences, ideas and values.

Organizational skills

**Organizational skills**

- organizational capacity;
- kindness;
- rigor;
- competitiveness;
- responsibility;
- self-control, initiative, self-organization.

Technical skills

**Technical skills**

- environmental protection engineer;
- good technician in economic activities;
- trainer;
- quality auditor;
- occupational health and safety inspector;
- responsible for the protection of personal data;
- entrepreneurial skills.

PC skills

**PC skills**

- use of the Office program package: (Microsoft Word, Excel, Power Point, Visio);
- use of the Origin program;

- use of the LabView program;
- use of the Solid Edge program;

Driver's license **A, BE, CE**

## ADDITIONAL INFORMATION

### Project **Project**

- Doctoral Thesis: Electrochemical recovery of metals from waste electrical and electronic equipment.
- Dissertation: Monitoring the technological process and environmental factors within a galvanizing section in Alba County. 2018
- Diploma Project: Evaluation of some bee products as corrosion inhibitors of bronze in simulated acid rain. 2016

### Publications **Publications**

- Didactic work as coordinator: Electrochemical recycling of valuable metals from spent catalysts, Dissertation, UBB, Faculty of Chemistry and Chemical Engineering, Cluj-Napoca, 2022.
- Didactic work as coordinator: Electroextraction of Fe, Ni and Zn from leaching solutions resulting from the recovery process of base metals from waste printed circuit boards, Dissertation, UBB, Faculty of Chemistry and Chemical Engineering, Cluj-Napoca, 2022 .
- Didactic work as coordinator: Study of the electrochemical recovery process of Zn from depleted alkaline Zn-MnO<sub>2</sub> batteries, Diploma Project, UBB, Faculty of Chemistry and Chemical Engineering, Cluj-Napoca, 2022.
- Didactic work as coordinator: Electrochemical recovery of noble metals from printed circuit board waste, Diploma Project, UBB, Faculty of Chemistry and Chemical Engineering, Cluj-Napoca, 2021.
- Poster: Innovative circular process for the electrochemical recovery of the base metals from waste printed circuit boards. 2021
- Application for invention patent: Process and installation for the recovery of materials from the waste of disassembled printed circuit boards (without electronic components). 2021
- Article: Selective electroextraction of base metals from leaching solutions obtained during the recycling of waste printed circuit boards. II. Selective potentiostatic electrodeposition of copper, tin and lead. 2021
- Didactic work as coordinator: Experimental stand for intensive selective electrodeposition of copper recovered from printed circuit board waste, Diploma Project, UBB, Faculty of Chemistry and Chemical Engineering, Cluj-Napoca, 2020.
- Article: Selective electroextraction of base metals from leaching solutions obtained during the recycling of waste printed circuit boards. I. Intensive galvanostatic electrodeposition of copper. 2020
- Poster: Selective electroextraction of Sn-Pb from Cu free leaching solution obtained during the recycling of waste printed circuit boards using the KBr-HBr system. 2020
- Poster: Selective electroextraction of copper from aqueous leaching solutions obtained during the recycling of waste printed circuit boards using the KBr + HBr system. 2020
- Poster: Metals selective electrodeposition from leaching solutions resulting in the WPCBs recycling process. 2019
- Poster: Electrochemical regeneration of the leaching solution for metals recovery from WPCBs. 2019
- Scientific Paper: Evaluation of natural honey as corrosion inhibitor for bronze in weekly acidic solution. 2016
- Scientific Paper: Study on the stresses produced by vibrations in bridges. 2015

### Courses **Courses**

- Certificate of graduation from the Psychopedagogical Training Program (Level 2), period 01.10.2022 - 01.07.2023
- Certificate of participation Essential first aid course, period 22.06.2023
- Counselor Course for Personal Development C.O.R. 242324, period 15.03.2023-19.05.2023
- Certificate of graduation from the Psychopedagogical Training Program (Level 1), period 01.10.2021 - 01.07.2022
- Personal Data Protection Responsible Course, period 02.01.2021-02.26.2021

- Entrepreneurial Skills Course, period 15.10.2020-19.12.2020
- Environmentally Responsible Course C.O.R. 325710, period 10.02.2020-12.03.2020
- Responsible waste management course, 13.02.2020
- Accounting Course C.O.R.: 331302, period 28.10.2019-10.12.2019
- HSE Inspector Course C.O.R. 315219, period 16.10.2019-15.11.2019
- Quality Auditor Course C.O.R. 214130, period 20.05.2019-11.06.2019
- Trainer Course C.O.R. 242401, period 15.04.2019-10.05.2019

Annexes **Annexes**