




## PERSONAL INFORMARION

**PUȘCAȘU Maria Eliza**

 Bd. Biruinței, 102, Pantelimon, Ilfov

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## PROFESIONAL EXPERIENCE

From 01.09.2020 – Present

**Scientific research assistant**

National Research & Development Institute for Non-ferrous and Rare Metals – IMNR  
Bd. Biruinței, 102, Pantelimon, Ilfov

- I am making pastes from biocompatible nanostructured powders;
- I am making three-dimensional structures by 3D printing techniques;
- I manipulate the 3D printers;
- I am designing 3D structures with complex geometries in SolidWorks;
- I am studying the influence of binders, heat treatments, geometries and models on the properties of 3D structures made in the laboratory;
- I am doing scientific documentation.

Type or sector of activity: [Research and development](#)

From 01.08.2020 – To  
01.09.2020

**Chemical technician**

National Research & Development Institute for Non-ferrous and Rare Metals – IMNR  
Bd. Biruinței, 102, Pantelimon, Ilfov

Type or sector of activity: [Research and development](#)

From 2018 – Present

**Volunteer**

Medical Engineering Development, Faculty of Medical Engineering, POLITEHNICA University of Bucharest, Romania

From 2017 – To 2018

**Volunteer**

The Romanian International University Fair, Bucharest, Romania

From 2016 – To 2018

**Volunteer**

X-Projects, Bucharest, Romania

From 2014 – To 2016

**Volunteer**

Association of Children with Down Syndrome, Bucharest, Romania

## EDUCATION AND TRAINING

From 10.2020 – Present

**Mater's program****SMART biomaterials and applications**

Faculty of Medical Engineering - POLITEHNICA University of Bucharest

From 2016 – To 2020

**Applied Science Engineer**

Specialization Biomaterials and Medical Devices

Faculty of Medical Engineering - POLITEHNICA University of Bucharest

From 06.2019 – To 09.2019

**Participation in the internship - Erasmus+ scholarship**

University of Salerno, Fisciano, Italy

From 2012 – To 2016

**High school**

High school diploma

"Gheorghe Șincai" National College, Bucharest, Romania

**PERSONAL SKILLS AND COMPETENCES**

 Mother language  
 Other languages

English

Romanian				
UNDERSTANDING		SPEAKING		WRITING
LISTENING	READING	SPOKEN INTERACTION	SPOKEN PRODUCTION	
C1	C1	C1	C1	B2
IELTS CERTIFICATE				

**Digital skills**

Known programs and software: Microsoft Office (ECDL certificate), SolidWorks, Catia V5, 3D Slicer, Rhino 6, AutoCad, Mimics Medical, 3-matic medical, Geomagic Studio, MatLab, Origin, PSpice, Inventor, MeshMixer.

**Projects / Works**

- [M.ERANET-MANUNET 208/01.12.2020 Manufacturing technologies for environmental and energy applications](#)  
 Scientific Research Assistant  
 National Research & Development Institute for Non-ferrous and Rare Metals – IMNR
- [PN 19190101 3D structures based on advanced materials, made by additive manufacturing, with environmental applications and energy storage](#)  
 Scientific Research Assistant  
 National Research & Development Institute for Non-ferrous and Rare Metals – IMNR
- [International Conference on Emerging Technologies in Materials Engineering - EmergeMAT 3rd Edition](#)  
 I participated with the poster entitled "Additive manufacturing of zinc oxide structures: a review"  
 National Research & Development Institute for Non-ferrous and Rare Metals – IMNR
- [Training session - Enformation 2020](#)  
 I participated in the online training session "Electronic access to scientific literature to support and promote the research and education system in Romania"  
 Anelis Plus
- [National Bioengineering Conference for Students and Young Researchers XXI Edition 2018](#)  
 I presented the research paper entitled "In vitro and in vivo study of bioactivity and mechanical properties of synthesized diopside by a method that uses as material through eggshells".  
 Faculty of Medical Bioengineering, "Grigore T. Popa" University of Medicine and Pharmacy
- [Student Scientific Communications Session 2018](#)  
 I presented the research paper entitled "Obtaining and characterizing a diopside-magnetite composite for medical applications".  
 Faculty of Medical Engineering - POLITEHNICA University of Bucharest