PERSONAL INFORMATION

Mihai Tudor Olaru

Bucharest, Romania

0758045045

mihai.tudor.olaru@gmail.com

Sex M | Date of birth 03/06/1990 | Nationality Romanian

WORK EXPERIENCE

2014 – present

Scientific Researcher Assistant – Scientific Researcher – Scientific Researcher III

National Research-Development Institute for Non-ferrous and Rare Metals – IMNR www.imnr.ro

- performs direct scientific research work within the projects;
- design and planning of experiments
- write up the documents to specific activities carried out and sends them to the project managers / the laboratory chief;
- write scientific articles and provide scientific and technical support for other papers elaborated in the institute for which I had the necessary competence;
- write project proposals for national and international competitions
- assuring good working conditions for special laboratory equipment
- continuous development of material science knowledge

Business or sector Research and Development

EDUCATION AND TRAINING

2015 – present

PhD in Engineering Science – materials science

University Politehnica Bucharest, Faculty of Materials Science and Engineering

- High temperature materials
- High entropy alloys
- Materials for aerospace
- Jet turbine engines
- Structural analysis of alloys
- Experimental data analysis
- Thermodynamic modelling
- During the PhD I managed to acquire multiple knowledge about the constrains that appears during material design cycle.

2013 – 2015

Master's Degree – material science

University Politehnica Bucharest, Faculty of Materials Science and Engineering

- High temperature materials
- High entropy alloys
- Materials for aerospace
- Experimental data analysis
- During the master thesis I gathered knowledge about high entropy alloys, alloys obtaining routes, physical-chemical analysis of alloys, usage of technological equipment

2013 – 2015

Bachelor's Degree – material science

University Politehnica Bucharest, Faculty of Materials Science and Engineering

- Influence of magnetic field on human health and tissue – implant biocompatibility

PERSONAL SKILLS

Mother language(s) Romanian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C2 (proficient user)	C2 (proficient user)	C2 (proficient user)	C2 (proficient user)	C2 (proficient user)
	Replace with name of language certificate. Enter level if known.				
French	A1 (independent user)	A1 (independent user)	A1 (independent user)	A1 (independent user)	A1 (independent user)
	Replace with name of language certificate. Enter level if known.				

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

Communication skills

- During my work in R&D field I gained good social and communication skills through participating on national and international conferences where I presented my work in High Entropy Alloys. Also, the R&D field requires teamwork and good adaptive capacity during experiments.

Organisational / managerial skills

- Leadership and team coordination skills acquired during project works.
- Organizational skills (experimental planning)
- Analyses and synthesis (real-time data analysis and making decisions for good results)

Job-related skills

- Good experimental planning
- High capacity of learning and operating high-end and experimental equipment
- High capacity of synthesis and learning new information and documentation
- Use of induction, microwave, resistive and heat-treatment furnaces
- Use of EB-PVD equipment and other thin film obtaining methods (resistive evaporation, sputtering, AGD)
- Use of laboratory equipment (glovebox, mills, high-sensitivity balances, high temperature measuring tools, etc.)
- Oxidation and corrosion resistance tests
- Recovery of interest metals from WEEE
- Electrochemistry

Computer skills

- Use of Microsoft Windows and Office suite
- Internet
- Use of photo editor software
- Use of Autodesk (Inventor, AutoCAD, 123D)
- Comsol Multiphysics
- LabView
- MatCalc
- 3D printing slicing designated software

Other skills

- 3D printing by additive manufacturing FDM and DLP (ABS, PLA, PET-G, Resin)
- Electrical and electronic skills (measuring, soldering, circuit design)
- Smart home design and implementation
- Pizza

Driving licence

- B