

ALEXANDRA ELENA STOICA

Chemical Engineer



Sex Female | Date of birth | Nationality Romanian

Chemical engineer with broad interests and knowledge oriented on research, materials and process development and analysis. Excellent analytical skills towards continuous chemical, technical and academic development and training. An enthusiastic for any required training destined to improve research, chemical and technical skills through innovative tasks. Eager to expand my professional experience in a challenging field.

WORK EXPERIENCE

07/2023 – Present Philip Morris Romania – Manufacturing Trainee

09/2019 – 07/2023 Expleo Group Romania – Materials and Processes Engineer

Subcontractor for AIRBUS - Research Material and Processes department

Material and Processes Engineer with focus on the A320/A330 neo family, A350 and A380.

Responsible for:

- redaction of the Qualification Test Programs and Qualification Test Reports for metallic materials departments after analysing all the data results;
- creation of AIRBUS technical documentation for cast and forged alloys (nickel alloys, titanium alloys, steel alloys and aluminium alloys) according to customer requirements;
- uploading of technical reports for Integrated lab department on ECM database and attendance to the people involved into the loop during the ECM workflow validation;
- update MADRAS data base (storage of technical qualifications);
- creation database taking into account the analysis of new materials and manufacturing processes;
- participation, discussions and technical meetings with specialists in related fields;
- creation of statistical analysis based on the test results received from the suppliers.

03/2015 – 09/2021 University Politehnica of Bucharest – Assistant Researcher / Chemical Engineer
Department of Science and Engineering of Oxide Materials and Nanomaterials, Faculty of Applied Chemistry and Materials Science, University Politehnica of Bucharest

Responsible for:

- synthesis of materials using different methods (electrospinning, hydrothermal, sol-gel, precipitation, co-precipitation);
- performing of physico-chemical test: XRD, FT-IR, SEM/EDS;
- interpretation of test results provided through physico-chemical investigations (SEM/EDS, TEM, FT-IR, XRD, ATD);
- redaction of scientific reports, scientific papers and book chapters related to research projects.

EDUCATION

- 2019 – Present **Doctoral Studies**
Faculty of Applied Chemistry and Materials Science, University Politehnica of Bucharest, Bucharest (Romania)
- 2017 – 2019 **Master**
Advanced composite materials with special destinations, Department of Science and Engineering of Oxide Materials and Nanomaterials, Faculty of Applied Chemistry and Materials Science, University Politehnica of Bucharest, Bucharest (Romania)
- 2017 – 2019 **Master**
Biomaterials for Tissue Engineering, Faculty of Engineering in Foreign Languages, University Politehnica of Bucharest, Bucharest, Bucharest (Romania)
- 2017 – 2019 **LEVEL II OF PSYCHOPEDOGOGICAL STUDIES**
Training Department for Teaching and Socio-Human Sciences, University Politehnica of Bucharest, Bucharest (Romania)
- 06/2015 – 08/2015 **Erasmus Mobility**
Marmara University, İstanbul (Turkey)
- 2012 – 2015 **LEVEL I OF PSYCHOPEDOGOGICAL STUDIES**
Training Department for Teaching and Socio-Human Sciences, University Politehnica of Bucharest, Bucharest (Romania)
- 2012 – 2016 **Bachelor Degree - Chemical Engineer**
Department of Science and Engineering of Oxide Materials and Nanomaterials, Faculty of Applied Chemistry and Materials Science, University Politehnica of Bucharest, Bucharest (Romania)



PERSONAL SKILLS

Attention to details
Ability to work under pressure
Teamwork and independent skills
Strong ability to prioritize and meet deadlines
Multitasking
Communicative



LANGUAGES

English ●●●●○
French ●●○○○



CERTIFICATES

British Council Certificate



PUBLICATIONS

12 Projects as researcher member
3 Books as Editor
6 Chapter books
25 Scientific papers
15 National & international conferences



SOFTWARE

Microsoft Office



OTHER

AM, B1, B
driving license

ADDITIONAL INFORMATION

- Memberships** Member - *Information and Consultancy Center InterMEDIU* – Faculty of Applied Chemistry and Materials Science, University Politehnica of Bucharest, Bucharest, Romania, period 2013-2014
- Volunteering** **Science Shop – InterMEDIU, period: Jan 2013 - Dec 2014**
Faculty of Applied Chemistry and Materials Science, University Politehnica of Bucharest, Bucharest (Romania)
- Assistant Editor, period 2014 - 2019**
Biointerface Research in Applied Chemistry - Open Access Journal, Bucharest (Romania)
(<http://biointerfaceresearch.com/>)
- Assistant Editor, period 2014 - 2019**
Biomaterials and Tissue Engineering Bulletin - Open Access Journal, Bucharest (Romania)
(<http://www.btebulletin.com>)
- Workshop** **Workshop training - use - software package chemical engineering MODULE II-2 (gPROMS)**. POSDRU/156/1.2/G/141040: `Educație de calitate în învățământul superior de inginerie chimică`.
- Honours and awards**
1. **Private Scholarship Roberto Rocca 2018 - 2019** (Roberto Rocca Education Program)
 2. AMBASADOR of the Faculty of Applied Chemistry and Materials Science in Business Relations, November 27, **2018**.
 3. **Valedictorian of University Politehnica of Bucharest**, Promotion "Regele Carol I", **2016** (Graduated – *Summa cum laude*: 10).
 4. The distinction of **2014 GTIS Fellow**, Green Technology Invention Society Taiwan (03 Feb **2015**).
 5. 4th place - Student Contest of Analytical Chemistry and Coordinative Chemistry "**Petru Spacu**" - edition **2013**.