

## PERSONAL INFORMATION

**Monica Violeta Circu**

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## JOB APPLIED FOR

**Chemist**

## WORK EXPERIENCE

1 Sep 20 13–Present **Scientific Resarcer III**

INCDTIM (National Institute for Research and Development of Isotopic and Molecular Technologies), Cluj-Napoca (Romania)

- Research in synthesis and analysis of isotopic labeled derivatives.
- Research in developing novel functionalized magnetic nanosystems used as recyclable catalysts.
- Research in developing novel magnetic nanoparticles with different inorganic coatings (TiO<sub>2</sub>, SiO<sub>2</sub>, ZnO) for security paper.
- Project manager on a project granted by the Romanian government (Grant PN II TE nr. 100).
- Write progress reports and publications in scientific journals.
- Present results in monthly project meetings and international conferences.

1 Jul 2012–31 Jun 20 13 **Scientific Researcher**

EMPA (Swiss Federal Laboratory for Material Science and Technology), Dubendorf (Zurich) (Switzerland)

- Research in developing new polymeric nanoparticles with imbedded organic dipoles to be used in elastomeric actuators.
- Responsible for operating the devices (NMR, GPC, IR, UV, Dr. Blade) needed for characterizing my own samples.
- Writing progress reports and scientific publications.
- Present results in weekly group meetings and international conferences.

1 Oct 2006–31 Jun 2012 **Chemist**

Babes-Bolyai University, Cluj-Napoca (Romania)

- Design, synthesis and structural characterization of novel organic molecules for molecular devices and novel sugars derivatives.
- Responsible for operating the NMR (Varian 200 MHz and Bruker 400 MHz) and Ms-HPLC spectrometers for the research group.
- Responsible for supervising and mentoring undergraduate students in organic chemistry.
- Writing progress reports and publications in scientific journals.
- Present results in weekly group meetings and international conferences.

## EDUCATION AND TRAINING

## 1 Oct 2001–31 Jun 2005

**Bachelor degree in Chemistry Babes-Bolyai University, Cluj-Napoca, Romania**

Babes-Bolyai University, Cluj-Napoca (Romania)

1 Oct 2005–31 Jun 2006 **Master degree in Chemistry**  
Babes-Bolyai University, Cluj-Napoca (Romania)

1 Oct 2006–9 Sep 2011 **Ph.D in Organic Chemistry**  
Babes-Bolyai University, Cluj-Napoca (Romania)

#### PERSONAL SKILLS

Mother tongue(s) Romanian

| Other language(s) | UNDERSTANDING |         | SPEAKING           |                   | WRITING |
|-------------------|---------------|---------|--------------------|-------------------|---------|
|                   | Listening     | Reading | Spoken interaction | Spoken production |         |
| English           | C2            | C2      | C2                 | C2                | C2      |
| Italian           | C1            | C2      | B2                 | B1                | A2      |
| Greek             | B1            | B1      | A2                 | A2                | A1      |
| French            | B1            | B1      | A2                 | A2                | A2      |

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user  
Common European Framework of Reference for Languages

Communication skills

- Good communication skills with other people.
- Excellent capacity to work as part of a team or independently.
- Fast integration into new environment.

Organisational / managerial skills

- Leadership (currently responsible for a team of 6 people)
- Good organizational skills

Job-related skills

- Mentoring skills (as a Ph.D student I was responsible for training and mentoring undergraduate students)

#### Digital skills

| SELF-ASSESSMENT        |                 |                  |                  |                  |
|------------------------|-----------------|------------------|------------------|------------------|
| Information processing | Communication   | Content creation | Safety           | Problem solving  |
| Proficient user        | Proficient user | Independent user | Independent user | Independent user |

Digital skills - Self-assessment grid