

Post-doctoral Research Fellow in the field of Polymeric Drug Delivery Systems

The University of Bialystok, Faculty of Chemistry, Poland

Job description

Post-doctoral Research Fellow

Employer:	Department of Polymers and Organic Synthesis, Faculty of Chemistry, University of Bialystok
Location:	Bialystok, Poland
Job Type:	Full time
Contract Duration:	24 months
Closing Date:	June 26th, 2022, 23:59 (CET time)
Salary:	Competitive package and benefits

Introduction

Faculty of Chemistry, University of Bialystok is seeking a qualified Post-doctoral Research Fellow to work on a project in the area of polymer chemistry and organic synthesis.

The title of the project is “Two in one” – novel fluorescent polymers for simultaneous imaging and drug delivery.

The main goal of this project is the formation of original block copolymers tagged with various fluorescent dyes; investigation of their spectroscopic properties; study of micelles formation in aqueous solutions by polymeric carriers alone as well as with conjugated drug; investigation of the mechanism of drug transport across biological membranes and the mechanism of action inside biological systems.

Job Role & Key Responsibilities

The Post-doctoral Research Fellow will undertake the following main activities and responsibilities:

- synthesis of various monomers, the chain transfer agent for RAFT polymerization and other compounds,
- polymerization and copolymerization of synthesized monomers;
- encapsulation of biologically active compounds;
- physicochemical investigations;
- or/and biological investigation (investigation of antimicrobial, antifungal, and antineoplastic behavior of polymeric systems and systems with encapsulated biologically active compounds).

Desired Skills and Experience

Job Requirements

Applicants should meet the following requirements:

- Ph.D. in Chemistry, Chemical Engineering, or related fields;
- Specialist in organic synthesis and/or polymer chemistry.
- Demonstrated experience in physicochemical analyses (for example NMR, GPC, TGA, FT-IR, DLS, UV-Vis).
- International mobility experience will be valued.

Personal Skills

- Strong motivation to work, both independently and as part of a team in an interdisciplinary environment, with the ability to pay close attention to detail and to meet deadlines;
- Excellent communication skills and experience in the dissemination of results to the scientific community are expected;
- Capable of establishing collaborative ties with distinguished academic groups and relevant industry partners.

Languages

- Excellent communication skills in English are required.

What we offer

- Employment contract and competitive compensation package;
- The international and highly competitive environment in contact with leading-edge technology.

How to Apply

Interested applicants should submit a motivation letter, a full curriculum vitae and University certificates, and contact addresses of two referees. Incomplete applications will not be considered.

Inquiries should be made to: agawilczuwb@gmail.com

Employment Agreement

If your application is successful and you accept our offer of employment, you will receive the employment agreement and all other relevant documents.

If Your Application is Not Successful

We highly value the interest shown by applicants wishing to become a part of the Faculty of Chemistry, University of Białystok experience. We need to maintain good communications with candidates. No matter the outcome of the application, we always send the applicant an answer.

The advertisement deadline may be extended at any time without previous notice to improve the suitability and effectiveness of the recruitment process.

An advertisement can be closed earlier, in the case of the candidate from Ukraine who meets the competition requirements.