

**Researcher position (Assistant Professor) – available in the OPUS Project: “New biomaterials based on supramolecular and thermosensitive polymer networks” financed by the National Science Centre, Poland.**

**Starting date:** March 1, 2024

The project entitled “**New biomaterials based on supramolecular and thermosensitive polymer networks**” is an interdisciplinary research project focused on development, synthesis, and characterization of novel supramolecular and thermosensitive polymer networks for bone tissue engineering, in parallel with the study of their synthesis and characterization. The research work will be conducted in strongly interdisciplinary and motivated research team of chemists and medical doctors and within the Department of Polymer Engineering and Biomaterials Science, where multiple international project are being conducted.

### **Researcher Position**

The researcher will be responsible for preparation of precursors for thermo- and UV sensitive compositions, evaluation of their physico-chemical properties, networks preparation and their characterization, including degradation tests, investigation of curing kinetics, mechanical properties assessment, evaluation of surface and mechanical properties, and participate in *in vitro* and *in vivo* biocompatibility studies (in collaboration with Pomeranian Medical University in Szczecin). She/he will also be responsible for preparation of research papers and project reports.

Project duration: 36 months

The researcher will be located at the **Department of Polymer and Biomaterials Science** which is involved in an interdisciplinary research focused on development and investigation of polymeric materials and biotechnological processes, including polymer science, nanotechnology and biomedical engineering. Our special interest is focused on biodegradable polymeric materials for tissue engineering applications as well as for medical techniques (implants, hydrogels, materials for tissue engineering and nanomedicine). For more insights you can visit: <http://www.kipb.zut.edu.pl/en/>

**Requirements:**

- Masters' and/or PhD in Chemistry, Chemical Technology, Tissue Engineering, Biomaterials, Biotechnology or another related field;
- experience in working with organic synthesis and polymeric biomaterials and hydrogels synthesis and application for tissue engineering or body implants;
- proficiency in chemical, physical and mechanical testing of polymers and hydrogels/elastomers;
- good spoken and written English.
- strong conceptual and analytical skills;
- good social and communication skills to work co-operatively in multidisciplinary teams;
- creativity, commitment and a flexible attitude.

**Application procedure:**

Candidates should send their CV and motivation letter to [mirfray@zut.edu.pl](mailto:mirfray@zut.edu.pl) (project coordinator, prof. Mirosława El Fray). Selected applicants will be invited for an interview via Skype or MS teams which will be held in the mid of February, 2024. **Beginning of work: March 1, 2024.** The Interview Committee will recommend the candidate, while the Rector is the authority making decision about an employment.

**Deadline:**

The application deadline is February, 5<sup>th</sup>, 2024.