



## Offer for Ph.D. Student Internship

### *Development of tunable refractive index multilayer polymer nanocomposites*

<b>Organization</b>	Faculty of Science and Technology, University of Silesia in Katowice, Poland
<b>Research field</b>	Physical sciences, Material Sciences, Physical chemistry, Engineering
<b>Required Qualification</b>	A student who is already enrolled in a Ph.D. program with a Master's degree in Polymer Science/ Nanotechnology /closely related discipline.
<b>Location</b>	Chorzow, Poland
<b>Application Deadline</b>	23/02/2025 23:00 - CEST
<b>Application processing start date:</b>	06/02/2025
<b>Offer Starting Date</b>	01/04/2025

**Role:** The Ph.D. student will conduct a research internship in developing multilayer polymer nanocomposite (PNC) films for refractive index engineering applications. This will involve synthesizing and characterizing various PNCs with specific refractive index values in both bulk and confined geometries.

#### Expected skills:

- ✓ Practical experience in the synthesis and characterization of polymer nanocomposites.
- ✓ Practical experience in ellipsometry is highly desirable.
- ✓ Good communication and writing skills in English are a must.
- ✓ Ability to work independently adhering to the research plan.
- ✓ Ability to analyze numerical data (OriginLab, Matlab, etc.)
- ✓ A very strong motivation to work, ability to learn fast, perseverance, and flexibility.

#### Our offer:

- ✓ Being a part of an international research group.
- ✓ Stimulating working environment.
- ✓ Access to modern experimental equipment located in the August Chełkowski Institute of Physics at the Faculty of Science and Technology

**Scholarship:** 5000 PLN gross/ month + welfare benefits for a period of ~ 1 year and 6 months.

**Selection Process:** The applicants should send

1. a cover letter (including a summary of his/her scientific work, and how his/her experience can contribute to this work)
2. a curriculum vitae, a list of publications if any,
3. a no-objection certificate (permission letter) from the current Ph.D. guide(s) and Institute.
4. at least two recommendation letters.

Please send your applications as a single PDF file to the following e-mail address: [aparna.beena-uni@smcebi.edu.pl](mailto:aparna.beena-uni@smcebi.edu.pl).

Pre-selected candidates will be interviewed online.