

## DIRECTOR OF THE CENTER FOR BIOTECHNOLOGY OF THE SILESIAN UNIVERSITY OF TECHNOLOGY

announces a competition for the position of assistant (R1 Researcher) for a definite period  
at the Biotechnology Center

We are looking for 2 young researchers (R1) to conduct interdisciplinary research in the area of enzymology, protein engineering, and structural biology. The position is funded under EIC Pathfinder project "Teaching Lytic Polysaccharide Monooxygenases to do Cytochrome P450 Catalysis" in cooperation with Norwegian University of Life Sciences, Technical University Graz and Institute of Catalysis and Surface Chemistry Polish Academy of Sciences.

Successful candidate will join the Tunneling Group ([www.tunnelinggroup.pl](http://www.tunnelinggroup.pl)) headed by dr hab. Artur Góra. Depending on the experience will join experimental or *in-silico* team.

### JOB DESCRIPTION:

#### For *in-silico*

1. analysis of proteins-nanomaterials interactions,
2. substrate/products transport phenomena analysis
3. proteins engineering and structure optimization
4. Cooperation with experimental group
5. Preparation of scientific articles
6. Presentations of the results at international conferences

#### For experimental

1. Expression, purification of proteins
2. Biophysical and biochemical characterization of proteins including ligand binding analysis, protein-protein interactions, study of the enzymatic activity and kinetics
3. Immobilisation of modified proteins on nanomaterials
4. Cooperation with *in silico* group
5. Preparation of scientific articles
6. Presentations of the results at international conferences

Silesian University of Technology  
Biotechnology Center

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APPLICATION MUST INCLUDE:

1. Application letter
2. Personal questionnaire
3. Diploma of obtaining a MSc degree in biology, chemistry, biochemistry or related fields (diploma has to be provided before date of employment)
4. Curriculum vitae (CV) including a complete list of publications
5. Information on scientific and didactic achievements and the direction of its further activity
6. Opinion of an independent researcher regarding the candidate
7. Statement on the level of knowledge of an English language
8. Statement that the Silesian University of Technology will be the primary place of work

ADDITIONAL REQUIREMENTS

Due to required starting date:

1. MSc diploma MUST be recognized in Poland (please visit: <https://nawa.gov.pl/en/recognition> for more information)
2. In the case of a candidate from outside the European Union recent working EU visa

PROFIL OF CANDIDATE:

1. First Stage Researcher (R1)
2. Documented scientific achievements in international journals in the field of biophysics, molecular biology, structural biology and/or enzymology
3. Documented participation in international scientific conferences and research projects
4. Fluent English (minimum B2),
5. Knowledge of molecular dynamics of proteins including accelerated or advanced sampling techniques, excellent knowledge of other computational methods and bioinformatics tools or knowledge of experimental techniques used in structural biology, proteins characterisation, binding affinity analysis, proteins stability analysis, enzymes activity assessment, purification and modification of proteins
6. High motivation and enthusiasm for research, independence, good organizational skills

WE OFFER:

1. Employment under the fixed period employment contract for 1 years with the possibility to extend to 3 years in the research project EIC Pathfinder project "Teaching Lytic Polysaccharide Monooxygenases to do Cytochrome P450 Catalysis" led by dr hab. Artur Góra
2. Possibility to perform PhD study
3. International and multidisciplinary environment (microbiology, enzymology, entomology, organic chemistry, computational chemistry, bioinformatics, ecotoxicology)

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Biotechnology Center

Sebastian Student

DSc, PhD, Eng, Associate Professor  
Director for Science Biotechnology Center

4. Inspiring and friendly environment realising ambitious projects in the field of protein engineering, drug development, green chemistry and environmental protection
5. Attractive salary with additional pro-quality programmes
6. Opportunities for further carrier development

SELECTED PUBLICATIONS:

*Drug Discovery Today* **2021**, doi: 10.1016/j.drudis.2021.05.017

*Bioinformatics* **2020**, 36(8), 2599-2601, doi:10.1093/bioinformatics/btz946

*Chem Rev* **2013**, 113, 5871–5923, doi:10.1021/cr300384w

FOR MORE INFORMATION PLEASE CONTACT:

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WEB: [www.tunnelinggroup.pl](http://www.tunnelinggroup.pl), [www.aquaduct.pl](http://www.aquaduct.pl)

APPLICATION DEADLINE: 15.04.2022  
INTERVIEW: according to applications, no later than 20.04.2022

WHERE TO APPLY: hard copy – Biotechnology Centre, Secretary Office , H.O.16, ul. Krzywoustego 8, 44-100 Gliwice, POLAND or electronic version [artur.gora@polsl.pl](mailto:artur.gora@polsl.pl)

RESULTS ANOUNCEMENT: before 30.04.2022r  
JOB STARTS: 1.06.2022

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HR EXCELLENCE IN RESEARCH

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