







Specific Regulations for Recruitment to the Project regarding activities in the field of forestry at the Faculty of Civil Engineering and Environmental Sciences

Programme: PROM - Short-term academic exchange - recruitment 2024 **Project**: PROM - Short-term academic exchange **Project Number**: BPI/PRO/2024/1/00021

§ 1 General information

- 1. The implementation of the PROM project at the Faculty of Civil Engineering and Environmental Sciences will be carried out using the principles of horizontal policies regarding:
- a) accessibility for persons with special needs, including persons with disabilities and persons in a more difficult situation due to other premises (e.g. persons with low income, foreigners, refugees, etc.);
- b) **equal opportunities and non-discrimination**, including respect for other persons participating in the programme irrespective of their: sex, race, colour, descent, genetic features, language, religion, beliefs, political or any other opinion, membership of a national minority;
- c) equal opportunities for women and men, including equal treatment of both sexes;
- d) **principles of sustainable development**, concerning the application of the 'do no significant harm' principle to the environment (DNSH principle) based on the assumption that no activities may worsen the state of the environment and contribute to the escalation of the climate crisis.

§ 2 The scope and subject of support

- 1. Support includes outgoing and incoming mobility, such as:
- a) a mobility to the University of Turku (Finland) to obtain materials for a scientific article;
- b) participation in FUNGITAX workshops (thematic block 'Nature to date: exploring diversity and advanced identification of fungi on dead wood').
- c) visit to the Institute of Forestry Sciences (Bialystok University of Technology) to obtain material for a scientific article
- d) study visit to the University of Helsinki (Finland)
- e) study visit to BOKU University (University of Natural Resources and Life Sciences) in Vienna
- 2. The Project Participant receives financial support in accordance with § 7 of the Regulations for organization, recruitment and payment of scholarships and other forms of support under the PROM project.

§ 3 Characteristics of the target group

- 1. Type of Project Participant:
- a) student, employee of the Faculty of Civil Engineering and Environmental Sciencesof Bialystok University of Technology;
- b) doctoral student at the Doctoral School of Bialystok University of Technology;









- c) a student from foreign countries in the field of science, technology or natural sciences of higher education and science institutions;
- d) employee of a foreign higher education and science institution
- e) representatives of the academic staff of the Faculty of Civil Engineering and Environmental Sciencesof Bialystok University of Technology and employees of foreign higher education and research institutions.

§ 4

Criteria for qualifying participants for the Project

- A condition for participation in the recruitment procedure is reading the 'Regulations for organization, recruitment, participation and payment of scholarships and other forms of financial support under the PROM project' and these 'Faculty Regulations for Recruitment to the Project', accepting the conditions and filling in the electronic form available on the website of the Faculty of Construction and Environmental Sciences.
- 2. Criteria for the eligibility of a student leaving to obtain materials for a scientific article to the University of Turku (Finland):
 - a) second-cycle student at the Faculty of Civil Engineering and Environmental Sciences of Bialystok University of Technology or third-cycle student at the Doctoral School of Bialystok University of Technology,
 - b) at the time of departure, have completed at least two semesters of study at Bialystok University of Technology,
 - c) at the time of applying for mobility has a minimum average grade of 4.5 (in the case of secondand third-cycle students, the average grade from the summer semester of the academic year 2023/2024 is taken into account),
 - d) knowledge of English at the level of at least B2, confirmed by a language exam (interview) or a valid certificate or other document:
 - Matura exam (matura certificate) at the extended level with a percentage marks: 35% and above from the written part,
 - Certificate of completion of a one-year language course at the level of at least B2, issued by a language school;
 - End of course exam at B2 level. Certificate required in Polish from the BUT Foreign Language Centre.
 - FCE certificate
 - CAE Certificate/Certificate in Advanced English/ /regardless of the grade and date on the certificate
 - TELC certificate
 - UCJ General Language Certificate (B2 level): regardless of the date on the certificate
 - TOEIC Certification (B2 level)
 - e) if there are more applicants than available places, a ranking list will be created based on the average grade. The average grade may be increased by:
 - 0.5 points in the case of membership in a Student Scientific Association operating at Bialystok University of Technology,
 - 0.5 points in the case of obtaining awards/distinctions for special scientific achievements









- f) average grades and student status do not require certificates, they will be confirmed in the Dean's Office of the Faculty of Civil Engineering and Environmental Sciences by the Faculty Expert of the Faculty of Civil Engineering and Environmental Sciences (forestry),
- g) knowledge of English, membership in Student Scientific Association, awards for scientific achievements must be confirmed by a certificate delivered to the Faculty Expert of the Faculty of Civil Engineering and Environmental Sciences (forestry), room 133A within the time limit indicated in the recruitment notice. Membership in the Scientific Association is confirmed in writing by the supervisor of the Association.
- 3. Eligibility criteria for students from foreign higher education and science institutions to participate in FUNGITAX workshops (thematic block 'Nature to date: exploring diversity and advanced identification of fungi on dead wood'):
 - a) students of science, technical or natural sciences from foreign higher education and science institutions,
 - b) knowledge of the English language confirmed by a certificate, certificate from a foreign higher education and science institution or a transcript of grades,
 - c) providing a reference letter from home institution of higher education and science confirming the knowledge and/or practical experience in the field of mycology,
 - d) final eligibility for participation in the FUNGITAX workshop will be based on submission of proof of purchase of an airline ticket/other means of transport for arrival at the FUNGITAX workshop.
- 4. Eligibility criteria for students from foreign higher education and science institutions to visit to the Institute of Forestry Sciences (Bialystok University of Technology) to obtain material for a scientific article:
 - a) students of science, technical or natural sciences from foreign higher education and science institutions,
 - b) knowledge of the English language confirmed by a certificate, certificate from a foreign higher education and science institution or a transcript of grades,
 - c) providing a reference letter from home institution of higher education and science confirming the knowledge and/or practical experience in the field of mycology
- 5. Criteria for qualifying doctoral students from the BUT Doctoral School (discipline: forestry sciences) to participate in a study visit to the University of Helsinki:
 - a) third-cycle student (Doctoral School of the Białystok University of Technology) at the Faculty of Civil Engineering and Environmental Sciences of the Białystok University of Technology, discipline: forestry sciences,
 - b) knowledge of English at least at B2 level confirmed by a valid certificate or other document:
 - Advanced level secondary school leaving examination (secondary school leaving certificate) with a percentage score of at least 50% in the written part,
 - Certificate of completion of a one-year language course at a level of at least B2, issued by a language school;
 - Exam at the end of a B2 level language course. A certificate in Polish from the PB Foreign Language Centre is required.
 - FCE certificate
 - CAE certificate / Certificate in Advanced English/ / regardless of the grade and date on the certificate
 - TELC certificate
 - University Language Certificate (level B2): regardless of the date on the certificate
 - TOEIC certificate (level B2)
 - c) List of publications and/or scientific and research achievements/experience in the field of mycology,









- d) Student status does not require a certificate; it will be confirmed at the Dean's Office of the Faculty of Civil Engineering and Environmental Sciences by the Faculty Expert of the Faculty of Civil Engineering and Environmental Sciences (forestry sciences),
- 6. Eligibility criteria for employees from foreign higher education and science institutions:
 - a) a person holding at least a doctoral degree or an equivalent degree obtained abroad
 - b) providing a reference letter, issued by home institution of higher education and science, confirming the achievements and/or practical experience in the field of mycology.
- 7. Eligibility criteria for academic staff from the Faculty of Civil Engineering and Environmental Sciences (discipline: forestry sciences):
 - c) a person holding at least a doctoral degree or an equivalent degree obtained abroad
 - d) with achievements and/or practical experience in the field of mycology.
- 8. Criteria for qualifying doctoral students from the BUT Doctoral School (discipline: forestry sciences or environmental engineering, mining and energy) to participate in a study visit to BOKU University (The University of Natural Resources and Life Sciences) in Vienna:
 - c) third-cycle student (Doctoral School of the Białystok University of Technology) at the Faculty of Civil Engineering and Environmental Sciences of the Białystok University of Technology, discipline: forestry sciences or environmental engineering, mining and energy),
 - d) knowledge of English at least at B2 level confirmed by a valid certificate or other document:
 - Advanced level secondary school leaving examination (secondary school leaving certificate) with a percentage score of at least 40% in the written part,
 - Certificate of completion of a one-year language course at a level of at least B2, issued by a language school:
 - Exam at the end of a B2 level language course. A certificate in Polish from the PB Foreign Language Centre is required.
 - FCE certificate
 - CAE certificate /Certificate in Advanced English/ /regardless of the grade and date on the certificate
 - TELC certificate
 - University Language Certificate (level B2): regardless of the date on the certificate
 - TOEIC certificate (level B2)
 - c) List of publications and/or scientific and research achievements/experience in the field of natural product research,
 - d) Student status does not require a certificate; it will be confirmed at the Dean's Office of the Faculty of Civil Engineering and Environmental Sciences by the Faculty Expert of the Faculty of Civil Engineering and Environmental Sciences (forestry sciences or environmental engineering, mining and energy)

§ 5

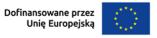
Competences acquired as a result of the support

1. A mobility to obtain materials for a scientific article to the University of Turku (Finland)

Competencies												
Knowledge	W1	Knowledge of	boreal	brioflora	analysis	methods	and	their	application	in	species	diversity
		assessment.										









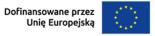
	W2						
		data.					
	W3	Understanding of the importance of science popularisation in society and the role of scientists as					
		communicators of science.	communicators of science.				
Skills U1 Ability to obtain and analyze floristic data in the field and laboratory.			d and laboratory.				
	U2	Ability to interpret research results in the context of	of peatland ecology and global environmental				
		change.					
	U3	Ability to interpret research results on range shifts o	f boreal moss and liverwort species.				
Social	K1	Ability to cooperate in diverse,	international research teams,				
competencies		taking into account cultural and linguistic difference	taking into account cultural and linguistic differences.				
	K2	Ability to have substantive discussions about research	arch with people from outside the scientific				
		community.					
	К3	Awareness of the role of peatland research in the context of climate change and biodiversity					
		conservation.					
	K4	Responsibility for transferring knowledge in a reliable and ethical manner, taking into account the					
		diversity of the audience.					
		Criteria for the verification of the learning	g outcomes				
Learning outco	me	Verification criterion	Verification method				
		The participant knows the methods of analysis of					
W1, W2, W3		brioflora species diversity and the importance of	Evaluation questionnaire				
		interdisciplinary work					
		Participant created and delivered a presentation	Supervisor's opinion on the presentation,				
U1, U2, U3		popularizing the results of scientific research	Evaluation questionnaire				
1/4 1/2 1/2 1/4		The participant has actively participated in the team's	Self-assessment included in the evaluation				
K1, K2, K3, K4		work	questionnaire				

2. FUNGITAX Workshops

			Competencies			
Knowledge	W1	L	Knowledge of mycobiota analysis methods and their application in species diversity assessment.			
	W2	2	Knowledge of field inventory techniques, laboratory methods of identification and interpretation			
			of ecological data.			
W3 Understanding of the importance of science popularisation in society and the role as communicators of science.			Understanding of the importance of science popularisation in society and the role of scientists			
Skills	U1		Ability to obtain and analyse mycological data in t	he field and laboratory.		
	U2		Ability to identify fungi using advanced microscop	ic methods.		
	U3		Ability to interpret research results in the context of fungal ecology and their impact on sustainable ecosystem functioning.			
Social	K1		Ability to cooperate in diverse, international research teams, taking into account cultural			
competencies			linguistic differences			
·	K2					
	К3		Awareness of the role of fungal research in the context of climate change and biodiversit			
			conservation.			
K4			Responsibility for transferring knowledge in a reliable and ethical manner, taking into account			
			the diversity of the audience.			
			Criteria for the verification of the learning	g outcomes		
Learning outco	Learning outcome		Verification criterion	Verification method		
		The	e participant knows the methods of analysis of			
W1, W2, W3			cobiota species diversity and the importance of	Evaluation questionnaire		
			erdisciplinary work.			
U1, U2, U3	U1, U2, U3		he participant performs fungal identification nalyses using advanced microscopic methods.			









V1 V2 V2	The participant has actively participated in the	Self-assessment included in the evaluation
K1, K2, K3	team's work.	questionnaire and final presentation.

3. visit to the Institute of Forestry Sciences (Bialystok University of Technology) to obtain material for a scientific article

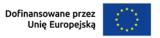
		Competencies				
Knowledge	W1	1 Knowledge of mycobiota analysis methods and their application in species dive	Knowledge of mycobiota analysis methods and their application in species diversity assessment.			
W2		Knowledge of field inventory techniques, laboratory methods of identification and interpretation				
		of ecological data.				
	W3	Understanding of the importance of science popularisation in society and the role of scien				
	as communicators of science.					
Skills	U1	Ability to obtain and analyse mycological data in the field and laboratory.				
	U2	Ability to identify fungi using advanced microscopic methods.				
	U3	Ability to interpret research results in the context of fungal ecology and	their impact on			
sustainable ecosystem functioning.						
Social K1		Ability to cooperate in diverse, international research teams, taking into account cultural and				
competencies		linguistic differences				
K2		Ability to have substantive discussions about research with people from outside the science				
		community.				
К3		Awareness of the role of fungal research in the context of climate change and biodiversity				
		conservation.				
K4		Responsibility for transferring knowledge in a reliable and ethical manner, taking into account				
		the diversity of the audience.				
		Criteria for the verification of the learning outcomes				
Learning outco	me	Verification criterion Verification me	thod			
		The participant knows the methods of analysis of				
W1, W2, W3		mycobiota species diversity and the importance of Evaluation questionnaire				
		interdisciplinary work.				
U1, U2, U3		The participant performs fungal identification Evaluation questionnaire				
01, 02, 03		analyses using advanced microscopic methods.				
K1, K2, K3		The participant has actively participated in the Self-assessment included in	n the evaluation			
		team's work. questionnaire and final presentation.				

4. Study visit to the University of Helsinki

		Kompetencje			
Knowledge	W1	Knowledge of effective DNA extraction from fungi and performing PCR reactions for isolated material.			
	W2	Familiarisation with the method of preparing DNA amplicons for sending for reading.			
	W3	Learning laboratory methods for isolating and preserving corticoid fungal cultures.			
Skills	U1	Acquiring the skill of computer drawing of micromorphological images of fungi.			
	U2	Ability to perform PCR reactions for fungal DNA.			
	U3	Mastering advanced methods of constructing phylogenetic trees of fungi.			
Kompetencje społeczne	K1	Ability to cooperate in diverse, international research teams, taking into account cultural and linguistic differences			
	K2	Ability to have substantive discussions about research with people from outside the scientific community.			
	К3	Awareness of the role of fungal research in the context of climate change and biodiversity conservation.			
	K4	Responsibility for transferring knowledge in a reliable and ethical manner, taking into account the diversity of the audience.			









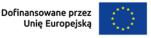
Criteria for the verification of the learning outcomes					
Learning outcome	Verification criterion	Verification method			
W1, W2, W3	The participant knows how to obtain fungal material for genetic testing and laboratory methods for isolating and preserving corticoid fungal cultures.	Evaluation questionnaire			
U1, U2, U3	The participant performs laboratory analyses in the field of PCR reactions. Combine morphological and genetic data to draw conclusions about the systematics and evolution of fungi and independently analyse phylogenetic relationships. The participant sees the possibility of using computerised methods of drawing micromorphological images in the morphology and taxonomy of fungi and comparing microscopic features between species.	Evaluation questionnaire			
K1, K2, K3, K4	The participant has actively participated in the team's work.	Self-assessment included in the evaluation questionnaire and final presentation.			

5. Study visit to BOKU University (The University of Natural Resources and Life Sciences) in Vienna.

		Kompetencje				
Knowledge	W1	Knowledge of white thermostability assessment using t Fluorimetry) method.	the DSF (Differential Scanning			
	W2	Introduction to the technique of immunoenzymatic te qualitative analysis of antibodies.	ests used for quantitative and			
	W3	Acquiring knowledge in the field of hydrodynamic diameter analysis of proteins using the Dynamic Light Scattering (DLS) technique.				
	W4	Knowledge of isolation and purification of proteins from	plant extracts.			
Skills U2		Acquiring the ability to assess protein thermostabilit Scanning Fluorimetry) method.	y using the DSF (Differential			
	U2	The ability to perform and interpret immunoenzymat qualitative antibody analysis.	e ability to perform and interpret immunoenzymatic tests for quantitative and			
	U3	The ability to analyze the hydrodynamic diameter of proteins using the Dy Scattering (DLS) technique.				
	U4	Ability to isolate and purify proteins from plant extracts.				
Kompetencje społeczne	K1	Ability to cooperate in diverse, international re account cultural and linguistic differences	search teams, taking into			
	K2	Ability to have substantive discussions about research the scientific community.	ch with people from outside			
	К3	The ability to critically evaluate data and consciously to the scientific objective and potential limitations of	·			
	K4	Responsibility for transferring knowledge in a reliable and ethical m taking into account the diversity of the audience.				
	1	Criteria for the verification of the learning outcom	nes			
Learning outcome		Verification criterion Verification me				
W1, W2, W3, W4		The participant correctly describes the principle of DSF operation and is able to explain how to assess the thermostability of proteins, characterizes immunoenzymatic techniques used for antibody analysis, explains the basics of the DLS technique and the principles	Evaluation questionnaire			









	of measuring the hydrodynamic diameter of proteins, and describes the main stages of isolating and purifying proteins from plant extracts.	
U1, U2, U3, U4	Participants independently perform DSF analysis and interpret protein melting curves, conduct immunoenzymatic tests along with analysis of the results, perform DLS measurements and interpret particle size distribution, as well as isolate and purify proteins from plant extracts, obtaining a preparation of appropriate purity.	Evaluation questionnaire
K1, K2, K3, K4	The participant has actively participated in the team's work.	Self-assessment included in the evaluation questionnaire and final presentation.

§ 6 Methods of verifying the learning outcomes

- 1. Verification of learning outcomes of all participants will be carried out by the Faculty Evaluation Specialist and will be based on 2 methods:
- a) Competency tests (CT), completed before and after the mobility, will assess the knowledge-based outcomes (e.g. W1, W2, W3, W4) indicated in the verification tables for each type of support (a mobility to obtain materials for a scientific article and workshops),
- b) The Competence Growth Cards (CGC), completed before and after the mobility, will include an analysis of skills (U1, U2, U3, U4) and social competences (K1, K2, K3, K4), in accordance with the relevant tables.
- 2. The choice of the method will be made by the Evaluation Specialist (ES) and will be adapted to specific actions and target group whose competencies will be subject to verification.
- 3. Verification of the learning outcomes of people with disabilities and people with special needs will be tailored to the individual needs of the participants. If necessary, a different method than the one provided above will be prepared and used, e.g. interview, participant's self-assessment, classroom observations. The verification of the effects will include, among others, the possibility of adjusting the time and date of the assessment of the learning outcomes at a later stage, conducting the assessment in different languages, etc.

§ 7 Final provisions

1. The Regulations shall enter into force on the date of signature and shall be valid for the entire duration of the Project.