



# INSTITUTE OF DENDROLOGY

## POLISH ACADEMY OF SCIENCES

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**Director of the Institute of Dendrology, Polish Academy of Sciences,  
invites applicants for the position of Post-doc  
at the Department of Genetics and Environmental Interactions**

### I. REQUIRMENTS

1. Doctoral degree in the field of biological, forest, Earth information or closely related sciences\*;
2. Knowledge about experimental or molecular biology or biotechnology;
3. Experience in application of techniques of RNA, DNA or protein analyses;
4. Scientific achievements including publications indexed by Clarivate Analytics, with total IF>10;
5. Proficiency in English (speaking and writing);
6. Skills in data analyses using statistical software (R or other);
7. Readiness to participate in scientific expeditions and training;
8. High motivation for further development and ability to work in a team;
9. Aptitude for scientific research;
10. Very good work organization;
11. Submitting a declaration that after employment the employee agree to be included in the number of employees conducting scientific activity at the Institute of Dendrology PAS, in accordance with art. 265 paragraph 5 of the law on higher education and science;
12. Submitting a declaration that after employment, the Institute of Dendrology PAS will be the place of primary employment.

\* According to the criteria of the National Science Centre (Kraków, Poland), the candidates can be accepted only if they were awarded the PhD degree up to 7 years before employment in the project. This period excludes intervals due to maternity leave, adoption leave, paternity leave, parental leave, or parental care leave, granted according to the principles set out in the Labor Code, or else associated with receiving sickness benefits or disability benefits because of temporary inability to work, including those caused by a disease requiring therapeutic rehabilitation. In the case of women, the above-mentioned 7-year period can be extended with 18 months for each born or adopted child. Women can choose more favorable ways to document the intervals in their scientific career.

### II. POSSIBILITIES

1. Salary of ca. 120,000 PLN annually (the amount includes remuneration costs along with non-wage labor costs, the so-called gross-gross);
2. Possibility to cooperate with research centers in Poland and abroad;
3. Scientific development;
4. Strengthening the scientific portfolio.

### III. PROJECT DESCRIPTION

The recruitment for 8 months concerns OPUS 17 project no. 2019/33/B/NZ9/02660, entitled "Regulation of European beech dormancy and germination mechanisms in variable environments" funded by the National Science Centre.

**Principal Investigator:** dr hab. Tomasz Pawłowski, ID PAS Professor

**Key words:** adaptation, dormancy, environment, epigenetics, gene expression, posttranslational modification, proteomics, transcriptomics

**Project topics:**

Global climate change alters environmental conditions, and thus affects reproduction of plants from seeds. Environmental factors such as temperature, light intensity and water availability are key factors controlling seed germination. European beech grows in a wide range of environments and has developed a variety of adaptive mechanisms. One of the most important mechanisms is deep physiological dormancy of seeds, ensuring seed survival through the winter. Changes occurring in the environmental conditions are becoming a threat to adapted local populations and the reproductive success of trees. The aim of this study is to determine the relationships between the germination parameters of beech seeds and different environmental conditions, and to identify the molecular mechanisms responsible for such adaptations. In this project, we plan to combine several levels of research: 1. Analysis of European beech diversity in Poland in terms of the depth of seed dormancy and germination. Germination tests will allow relating seed dormancy and germination to environmental conditions. 2. Analysis of the differences in gene expression among populations differing in depths of seed dormancy. We plan to investigate the differences among seed lots of different origins through the analysis of gene expression at the level of the transcriptome and proteome, especially focusing on proteins undergoing post-translational modification to regulate their activity. 3. Analysis of chromatin structure and histones modification on the promotor region of genes involved in beech seed dormancy depth regulation. The successful completion of this research task allows us to indicate epigenetic mechanisms that could be involved in regulation of beech seed dormancy and germination processes. It is expected that the data obtained in the project will allow the evaluation of the potential of this species to survive the environmental changes, and the recognition of the factors regulating the adaptation of individual populations of trees under the conditions of global warming.

**Tasks for the Post-doc:** The selected candidate will be involved in the following tasks in the project: 1) analysis of post-translationally modified proteins in seeds of beech populations differing in germination, 2) analysis of molecular mechanism of adaptation of beech seed germination to different environmental conditions.

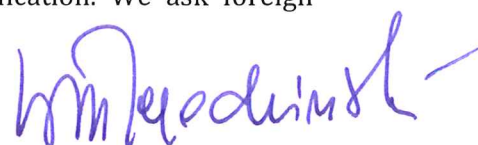
#### **IV. CONDITIONS OF EMPLOYMENT**

Fulltime employment contract.

Employment period: 8 months.

#### **V. LIST OF REQUIRED DOCUMENTS**

1. Application for employment, addressed to the Director of the Institute of Dendrology, Polish Academy of Sciences;
2. Personal data questionnaire valid at the Institute;
3. PhD diploma or its confirmed copy;
4. Description of previous scientific, teaching, and organizational activity of the job applicant, with documentation confirming his/her achievements.
5. Please be advised that foreign diplomas entitle you to continue education in Poland on the terms specified in international agreements, and in the absence of such agreements - on the basis of relevant national regulations, by means of nostrification. We ask foreign





candidates and Polish citizens who have obtained a professional title or academic degree abroad to check whether the diploma they hold may be recognized as equivalent to Polish one.

Written information about the diploma obtained abroad, in particular about the level of education and the status of the university, is provided at the request of the person concerned by the Director of the National Agency for Academic Exchange. Information is provided on the basis of documents submitted by the applicant.

**At the stage of the recruitment process, there is no requirement to present documents certified with the apostille clause, nor a requirement to nostrificate diplomas. These requirements must be met after the candidate is accepted.**

Detailed information can be found at:

<https://nawa.gov.pl/en/apostille-and-legalization>

<https://go-poland.pl/recognition-degrees-0>

The documents should be sent by e-mail to the Department of Scientific Information of the Institute of Dendrology, Polish Academy of Sciences (Magdalena Łukowiak, [lukowiak@man.poznan.pl](mailto:lukowiak@man.poznan.pl)) with a note: **"Application for the position of Post-doc at the Department of Genetics and Environmental Interactions"** in the form of an pdf attachment. If sending by electronic means is not possible, applications sent to the address Institute of Dendrology, Polish Academy of Sciences, Parkowa 5, 62-035 Kórnik, Poland, with a note on the envelope **"Application for the position of Post-doc at the Department of Genetics and Environmental Interactions"**.

Please do not send original documents.

## **VI. Application deadline: 16/08/2024**

### **Recruitment**

The recruitment procedure will take place in two stages:

1. First stage – the committee will evaluate the submitted documents. On this basis, a group of candidates will be selected to participate in the second stage of recruitment.
2. Second stage – interviews with the recruitment committee. The selected candidates will be informed by email about the date and time of the interview.

The final decision will be published until **30/08/2024**

The Institute of Dendrology, Polish Academy of Sciences, does not provide any flat for the Candidate.

Additional information may be provided by the Principal Investigator: dr hab. Tomasz Pawłowski, ID PAS Professor, email: [tapawlow@man.poznan.pl](mailto:tapawlow@man.poznan.pl)

Kórnik, 02/07/2024

  
DYREKTOR  
INSTYTUTU DENDROLOGII  
POLSKIEJ AKADEMII NAUK  
prof. dr hab. inż. Andrzej M. Janeczkiński

Job applicants who are interested in starting to work at the Institute of Dendrology, Polish Academy of Sciences, Kórnik, are asked to submit also the following statement:

***"I hereby declare that I agree to processing of my personal data during the process of recruitment for the position of ....., conducted by the Institute of Dendrology, Polish Academy of Sciences, Kórnik (62-035, ul. Parkowa 5).***

In compliance with article 13 of the General Data Protection Regulation (EU) 2016/679 of 27 April 2016, on the protection of natural persons with regard to the processing of personal data and on the free movement of such data, and repealing the Directive 95/46/EC (general directive on data protection), hereafter referred to also as "GDPR", the Institute of Dendrology, Polish Academy of Sciences, informs that: The personal data included in the job application (and the documents attached to it) will be administered by the Institute of Dendrology, Polish Academy of Sciences, address: 62-035 Kórnik, Parkowa 5 (hereafter referred to also as "Administrator").

The Administrator can be contacted via an e-mail message sent to [iod.idpan@man.poznan.pl](mailto:iod.idpan@man.poznan.pl) or a letter sent to the address: Institute of Dendrology, Polish Academy of Sciences, 62-035 Kórnik, Parkowa 5, marked as "Dane osobowe" (= "Personal data").

Your personal data will be processed by the Administrator to conduct the process of recruitment for the position indicated in the recruitment announcement.

The legal basis for personal data processing is the consent (article 6, paragraph 1(a) of GDPR). At any time you have a right to withdraw consent, with no effect on the compliance with the right to process, which was implemented on the basis of the consent before its withdrawal. If the consent is withdrawn, the data covered by the consent, processed on its basis, will be removed immediately.

The consent can be withdrawn via an e-mail message sent to [iod.idpan@man.poznan.pl](mailto:iod.idpan@man.poznan.pl) or a letter sent to the address: Institute of Dendrology, Polish Academy of Sciences, 62-035 Kórnik, Parkowa 5, marked as "Dane osobowe" (= "Personal data").

The personal data will be processed until the end of the recruitment process and will be removed within 3 months after the end of the recruitment.

The predicted categories of recipients of the data are: providers of job announcement publication services, providers of systems for recruitment management, providers of IT services, such as providers of information systems.

Providing of personal information is voluntary but necessary for participation in the recruitment process.

You have a right to ask the Administrator for access to your personal data, including also asking for their copy, a right to correct them, remove or limit their processing, and a right to move the data (for processing of which a consent was given). You also have a right to lodge a complaint with the supervisory authorities (President of the Personal Data Protection Office in Poland, i.e. Urząd Ochrony Danych Osobowych).

