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 Biogeography and Systematics

I. REQUIREMENTS

1. Doctoral degree in the field of biological or closely related sciences*;
2. Knowledge about evolutionary biology and bioinformatics;
3. Experience in the application of techniques of whole-genome sequencing (WGS) treatment and methods of landscape genomics;
4. Hands-on experience with R, Python and LINUX;
5. Scientific output including publications indexed by Clarivate Analytics;
6. Proficiency in English (speaking and writing);
7. Readiness to participate in scientific expeditions and training;
8. An additional advantage will be an internship abroad or an internship in a research unit in Poland;
9. High motivation for further development, creativity and ability to be both team-oriented and independent;
10. Very good work organization.

* 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.

III. PROJECT DESCRIPTION

The recruitment for 22 months concerns SONATA-16 project no. 2020/39/D/NZ8/01522, entitled "Hybridization as an evolutionary process which reinforces the adaptive potential of tree species in the face of climate changes", supported by the National Science Centre with the possibility of extension up to 24 months (subject to the extension of the duration of project no. 2020/39/D/NZ8/01522).

Principal Investigator: Dr Katarzyna Sękiewicz

Key words: adaptation, climate change, conservation genomics, evolutionary rescue, hybridization, landscape genomics, whole-genome sequencing

Project topics: Climate change is proceeding at an unprecedented rate, which leads to a considerable loss of biodiversity that may disturb the functioning of ecosystems. Forests have considerable potential to mitigate climate changes; however, given the expected rate of these changes, the future of the forests is under great concern. Understanding how species might respond to environmental changes is one of the most pressing questions in evolutionary biology.

In this project, we focus on the adaptive genetic variation, which is a key determinant of the evolutionary response of species to climate changes. Specifically, we are going to estimate the possible contribution of interspecific hybridization as a mechanism which reinforces the adaptive potential of tree species to climate changes. Unravelling the underpinnings of evolutionary drivers of adaptive potential of species may result in more realistic and accurate predictions about their response to ongoing climate changes. Hybridization can have theoretically considerable impact on species ability to adapt to varying climates. Nevertheless, whether and how hybridization impacts species range dynamic, especially at the range margins, remains poorly understood. To investigate this topic, we will use whole-genome re-sequencing and integrative approaches which combine population genomics with advanced spatial modelling techniques based on the genetic adaptive variability of tree species.

An important innovative component of the project is the inclusion of a genomics modelling approach that can capture adaptive evolutionary response of species and consider the hybridization as a mechanism enhancing this response. Up to now, hybridization has never been incorporated into the predictive models and little is known about the implications of this process in species response to climate change. The project will undoubtedly broaden the rapidly evolving field of landscape genomics, providing data on the role of hybridization in the evolutionary response of tree species to climate change. Understanding the impact of this process has a great potential for forest ecology, management and conservation of genetic diversity of tree species.

Tasks for the Post-doc: The candidate will be involved in the following tasks: 1) treatment of genomic data; 2) landscape genomic analyses; 3) dissemination of the obtained results and preparing publications.

IV. CONDITIONS OF EMPLOYMENT

Full-time employment contract.
Employment period: 22 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. Tertiary education 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) with a note: "**Application for the position of Post-doc at the Department of Biogeography and Systematics**" 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 Biogeography and Systematics**".
Please do not send original documents.

VI. Application deadline: 09/09/2022

Recruitment

The selection will take place in 2 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 e-mail about the date and time of the interview.

The final decision will be published till 23/09/2022

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

We encourage the candidates to contact the Principal Investigator, who can provide additional details: Dr Katarzyna Sękiewicz, e-mail. ksekiewicz@man.poznan.pl

Kórnik 10/08/2022

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

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 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 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.