

INFORMATION ABOUT THE COMPETITION

Position name: Research Assistant Professor/ Visiting Researcher (Post-doc)

Field: Natural Sciences

Discipline: Chemical Sciences

Reference no.: AD4/W3/01/2024

Place of work: Wrocław

Contract number: Project OPUS 23 No. UMO-2022/45/B/ST8/02410

Project title: Development of new processes for the production and sterilization of functional plant drinks with the use of cold atmospheric plasma technology

Type of contract: Temporary

Working time: Full-time

Faculty/Unit/Organizational unit: Faculty of Chemistry, Department of Analytical Chemistry and Chemical Metallurgy, Wrocław University of Science and Technology

Type of position: Research Assistant Professor/ Visiting Researcher (Post-doc)

Research position profile: R2

Deadline for submitting applications to participate in the competition: by 15.02.2024, until 3.00 pm

Announcement expiration date: 15.02.2024, 3.00 pm

Deadline for the conclusion of the competition: 8th of March 2024, after the recruitment interview

Planned date of employment: 01.04.2024

Period of employment and remuneration: 01.04.2024-31.03.2025 with possibility to extend up to 24 months, approx. 8900 PLN gross per month plus 13th salary and employee capital plan (approx. 11 666 PLN gross per month)

Position Description:

The Faculty of Chemistry of the Wrocław University of Science and Technology is looking for a candidate for the position of research assistant professor/visiting researcher in the NCN Opus 23 research project entitled: "*Development of new processes for the production and sterilization of functional plant drinks with the use of cold atmospheric plasma technology*" (UMO-2022/45/B/ST8/02410).

Responsibilities:

1. Participation in the optimization of the plasma-based system for functional drinks production of improved physicochemical, nutritional, and cytotoxic properties.

2. Performing the multivariate statistical analyses for determining the optimal working conditions of the plasma-based system, leading to producing the drinks with improved physicochemical, nutritional, and cytotoxic properties.
3. Participation in the development of new, plasma-based methods of sterilization of the fresh plant drinks.
4. Participation in the determination of selected organic compounds, both, profile and content, in plant drinks using HPLC-DAD.
5. Participation in the determination of mycotoxin, both, profile and content, in the plant drinks using HPLC-DAD.
6. HPLC-DAD results analyses.
7. Assessment of the quality, nutritional properties and biosafety of the functional plant drinks, produced with the aid of plasma.
8. Data visualization using e.g. R software.
9. Samples management: responsibility to deliver to the University of Gdansk for subsequent analyses.
10. Scientific article and patent applications preparation.
11. Participation in scientific conferences.
12. Data management according to NCN policy.

Requirements:

- At least a Ph.D. in chemistry or biology or similar, obtained in 2017 or later (2017-2024)
- Experience in working with cold atmospheric plasma-based systems
- Essential condition: Experience in the determination of organic compounds using chromatographic techniques mainly HPLC-DAD
- Experience in using statistical methods
- Experience in working with microorganism
- Co-authorship of research articles, associated with cold atmospheric plasma technology
- Knowledge of English in written and spoken
- Knowledge of R statistical program.
- Knowledge of ISO norms such as e.g. ISO 8968, ISO 1444:1996
- Statistical analyses

We offer:

- stable employment at the prestigious University,
- possibilities of career development,
- work in a creative and vibrant research team.
- additional funding for a personal computer and research related travels including collaborations and conferences (project implemented in the Consortium),
- acquiring new skills in the field of analytical methods and techniques

Development prospects: Scientific development related to access to numerous training and motivational programs (e.g. *Primus, Secundus, Tertius, Quartus*), as well as the possibility of establishing international cooperation (e.g. *under the UNITE program!*)

Required documents:

1. Application for entering the competition addressed to the Rector
2. Short biography
3. Questionnaire for the person applying for employment
4. A copy of the document confirming obtaining the academic degree or a copy of the diploma of graduation
5. Self-report containing information about achievements in the field of research activity, teaching experience, and organizational activity

6. List of publications
7. List and description of scientific internships
8. Statement on having read the information regarding the processing of personal data
9. Statement on meeting the requirements set out in Art. 113 of the Act of July 20, 2018. Law on higher education and science
10. Declaration of the candidate that in the case of winning the competition, Wrocław University of Science and Technology will be the primary place of employment*

*If a competition is won by a person who is employed under an employment relationship with another employer conducting the following activities: research, research and teaching, research and development, implementation (except for cases specified in Article 125(3) of the Act), and the employment is not expired by the date of employment at the Wrocław University of Science and Technology as the primary place of work, this person, in accordance with art. 125 sec. 1 of the Act, taking into account art. 125 sec. 2 of the Act, is obliged to obtain the Rector's consent for additional employment under an employment relationship with another employer after employing at Wrocław University of Science and Technology. If the competition is won by a person who conducts business activity, the requirement of art. 125 sec. 7 of the Act should be met.

Application documents in Polish or English should be sent: - by traditional mail to the correspondence address Wrocław University of Science and Technology, Faculty of Chemistry, C.K. Norwida 4/6, 50-373, Wrocław, room 131 or - by e-mail to the following e-mail address anna.dzimitrowicz@pwr.edu.pl by **15.02.2024, until 3.00 pm**.

In the title of the message, please indicate the reference number: AD4/W3/01/2024

Applications of persons sending their documents without indicating a specific reference number and sent after the deadline for submission will not be considered. The date of receipt of the documents is decisive. The date of receipt of application documents is considered to be 1.00 pm on the day indicated in the information about the competition. Candidates' applications will be evaluated by the Competition Committee. After the competition procedure is closed, the applications of persons who have not been accepted for work will be returned, provided that they were sent by traditional mail. People interested in having their documents back will be able to pick them up within 6 months after the competition procedure is closed, against acknowledgment of receipt.

1) Full-time remuneration for a post-doc type post is awarded in accordance with Annex to NCN Council Resolution No 27/2022 of 2 March 2022 amending the Regulations on awarding funding for research tasks funded by the National Science Centre as regards research projects. The person to be employed in this NCN post-doc position will meet all of the following conditions:

- a) obtained a doctoral degree in 2017 or later
- b) they are selected by means of open competition procedure, carried out by a recruitment committee appointed by the head of the project's host entity, composed of the project's principal investigator as its chair and at least two other persons appointed by the principal investigator, who have necessary scientific or professional qualifications. The assessment of the candidates is carried out pursuant to the criteria outlined in the call announcement and the results are made public by posting on the website of the project's host institution;
- b) they did not have the principal investigator as their research supervisor or auxiliary supervisor of their PhD dissertation.
- c) their PhD degree has been awarded by another institution than the one planned to employ them at this post or they have completed a continuous and evidenced post-doctoral fellowship

of at least 10 months in another institution than the host institution for the project and in another country than the one in which they have been conferred a PhD degree;
d) they will be employed for a period of at least 6 months;
e) at the time of receiving remuneration, they will not be receiving any other remuneration paid from the funds granted to research projects under NCN calls under the heading of direct costs;
f) in the period of receiving the remuneration they will be receiving no remuneration from another employer pursuant to an employment contract, including an employer with registered office outside of Poland.

The University stipulates that the competition may not be concluded.

LINK

ENG:

https://pwr.edu.pl/fcp/gGBUKOQtTKIQhbx08SlkTUhZeUTgtCgg9ACFDC0RBSnVBG1gnBVc0FW8SETZKHg/1/public/2023/docs/zw_3_2023_zw18_-z1_eng.pdf

The University stipulates that the competition may not be concluded. Public documents: The consolidated text of the Regulations for conducting open competitions for the position of an academic teacher and other necessary documents can be found here:

LINK PL, EN: <https://wch.pwr.edu.pl/pracownicy/konkursy>

Recruitments and competitions conducted by Wrocław University of Science and Technology are open, carried out in accordance with clear and transparent rules based on clear and unambiguous criteria of substantive evaluation, taking into account a diverse professional career. Wrocław University of Science and Technology conducts recruitment procedures in accordance with the guidelines of the European Charter for Researchers and the Code of Conduct for the Recruitment of Researchers and the Open, Transparent and Merit-based Recruitment Policy (OTM-R) at Wrocław University of Science and Technology.

Recruitments and competitions conducted by Wrocław University of Technology and Science are conducted taking into account the policy of equal opportunities in accordance with the "Equality plan for Wrocław University of Science and Technology for the period 2022–2024"

LINK PL: <https://rowna.pwr.edu.pl/aktualnosci/plan-rownosci-dla-pwr-11.html> LINK EN: <https://rowna.pwr.edu.pl/en/>