



Krakow, February 26, 2024


The Henryk Niewodniczański Institute of Nuclear Physics Polish Academy of Sciences

announces a competition for the position

ADIUNKT /post-doc/ - AP-NZ56/24

in Department of Magnetic Resonance Imaging /NZ56/

Division of Interdisciplinary Research /NO5/.

Deadline for application :	Expected term of employment:	Type of contract:	Number of positions:	Application address:
May 15th 2024	Second half of 2024 for define period up to 33 Months	contract of employment, full-time at IFJ PAN as the only place of work	1	 jobs@ifj.edu.pl

<https://www.ifj.edu.pl/en/career/recruitment-procedures.php>

I. Keywords:

Magnetic Resonance Imaging, MRI, Nuclear Magnetic Resonance, NMR, .

II. Description:

A person employed as an adjunct (post-doc) for a define period up to 33 Months at the Department of Magnetic Resonance Imaging – NZ56 at IFJ PAN will be obliged to participate in work on research topics and projects implemented and planned for the nearest period at the NZ56 Department.

The basic tasks of the employed person will include: development and implementation of magnetic resonance imaging and localized spectroscopy methodologies, to operate the MRI equipment and to carry out research in cooperation with other research centres.

The scope of the research will includes:

- MR imaging and spectroscopy of biological material (including small experimental animals, their organs and tissues in vivo and ex vivo), and new theranostic and contrast agents (nanomaterials) characterization for biomedical and pharmaceutical applications, using the Bruker Biospec 9.4T magnetic resonance experimental scanner.

- optionally, MR spectroscopy techniques with magic angle spinning (NMR MAS) of inorganic materials (polymers, porous rocks, inorganic glasses, zeolites, molecular sieves) on the MAS NMR 7.05T spectrometer.

The employed person will also be obliged to disseminate the results of research in the form of publications in leading scientific journals indexed in the JCR and speeches during seminars and conferences, including international ones. This person will also be obliged to apply for external funding for research.

III. Required qualifications:

- doctor degree in physical sciences or related disciplines: biophysics, chemistry, biomedical or materials engineering.
- qualifications necessary to carry out research tasks at NZ56:
- theoretical and practical knowledge of the subject of imaging and/or magnetic resonance spectroscopy (MRI, NMR) research in the area of in vivo/ex-vivo preclinical research and/or material research,
- practical experience in the use of magnetic resonance imaging and spectroscopy equipment,
- ability to work in a team,
- good knowledge of data analysis software, e.g. Matlab, Origin, ImageJ
- very good knowledge of spoken and written English.

Welcome:

- practical knowledge of software for ¹HNMR spectral analysis of the brain and/or brain tractography.

IV. Salary offered

A person employed for a fixed period up-to 33 Months as an adjunct (post-doc) will receive a monthly basic remuneration from **PLN 5,500.00 gross**, which depends on the candidate's achievements. The total amount of remuneration will be increased by **allowances** for: length of service and working under conditions of exposure to ionizing radiation (if applicable).

V. General information

Detailed rules of the competition are specified in the Terms and Conditions of Recruitment of Adjuncts and Research Assistants adopted by the IFJ PAN Scientific Council on April 12, 2021 and accessible at:

<https://www.ifj.edu.pl/en/career/documents/terms-and-conditions-adjunct-research-assistant.pdf>

Candidates applying for employment in IFJ PAN are required to contact the head of the NZ56 Department, dr hab. Władysław Węglarz at an early stage, who may ask the candidate to deliver a seminar before submitting the application and then the Head of the Department submits employment recommendation to the Competition Committee.

VI. Required documents

The list of required documents is included in the rules of the competition:

<https://www.ifj.edu.pl/en/career/documents/terms-and-conditions-adjunct-research-assistant.pdf>

VII. Deadline for application submission

- Applications with attachments shall be sent by e-mail by **May 15th, 2024** to the following address: jobs@ifj.edu.pl with the note „**Adiunkt/post-doc/AP-NZ56/24**”
- The employment recommendation from the two referees shall be sent directly, bypassing the candidate, to the following e-mail address: jobs@ifj.edu.pl

VIII. Conclusion of the competition

- Interviews with candidates shall take place from **June 10th, to June 12th, 2024**. Candidates qualified for interviews shall be notified by e-mail about the exact date of the Interview **by May 24th, 2024**. During the interview the candidate shall be required to give a presentation, **stored on a pen drive**, lasting 10 minutes at maximum which shall presenting candidate's most important achievement,
- The competition shall be concluded **by June 28th, 2024**.
- Each candidate shall be notified by e-mail about the results of the competition.
- **The final decision on employing and salary shall be taken by IFJ PAN Director.**

IX. Contact

All questions can be sent by e-mail to the IFJ PAN Employment Department (jobs@ifj.edu.pl).