

Job Offer – NeuroSmog – Neuroimaging team

Position in the project:	PhD student
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Scientific discipline:	Psychology, neuroscience, biology, computer science, physics, and related.
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Job type (employment contract/stipend):	Work contract (half time)
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Number of job offers:	1
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Remuneration/stipend amount/month:	3300 PLN gross/month
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Position starts on:	February 2022
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Maximum period of contract/stipend:	Until the end of December 2023
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Institution:	Institute of Psychology, Department of Philosophy, Jagiellonian University
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Project leader:	Prof. Marcin Szwed
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Project title:	NeuroSmog: Determining the impact of air pollution on the developing brain
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Project description:	<p>NeuroSmog combines four scientific teams in the fields of pollution assessment, child psychology, neuroimaging and epidemiology with the common goal of determining the impact of ambient air pollution on the developing brain in school age children. Using MRI scans and in-depth psychological testing of cases of ADHD and a control group selected from the general population, the Neurosmog project endeavours to investigate the effects of air pollution on behavioural and neural changes in school-age children. The candidate will have a unique opportunity to investigate these effects in a region where air pollution levels are considerably higher than elsewhere in Europe, and where air pollution is a major growing concern for society.</p>
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Key responsibilities include:

1. Work under the leadership of Prof. Marcin Szwed and postdoc.
2. DTI MRI data analysis carried out, together with Prof. Marcin Szwed and the postdoc, and in cooperation with the entire consortium.
3. Carry out MRI scanning
4. Publication of results in the form of conference messages and scientific articles.
5. Participation in research tasks in the lab
6. Work must lead to the doctoral dissertation (field - Psychology) under the direction of Prof. Marcin Szwed

Profile of candidates/requirements:

1. Ability to analyse data and MRI, writing scientific texts, preferably supported by scientific publications.
2. Experience with diffusion MRI analyses
3. Ability to work with subjects and coordination of MRI measurement. Previous experience of working at MRI scanner.
4. Programming skills (RStudio, Python / Matlab, Presentation / PsychoPy / ePrime) and statistical skills.
5. Very good command of the Polish language, allowing work, including remote (telephone) with the subjects and their families without the help of third parties.
6. Knowledge of scientific English (C2 or higher), best confirmed by original scientific texts in English and foreign stays.
7. MA degree in psychology with specialization in cognitive neuroscience.
8. Candidate must be already enrolled at a Doctoral School in the Cracow area.

Required documents:

CV including a list of publications, research experience and scientific interests

Email contact to your science or professional mentor for possible reference

We offer:

You will have an opportunity to work in an exciting and interdisciplinary project. You will develop your skills in programming, experiment designing, data collection and analysis. You will work under a supervision of experienced scientists as well as you will be a part of a team of students and graduates. Additionally you will have an opportunity to contribute to a project working on a very important problem of modern society - the

impact of ambient air pollution on the developing brain in school-age children.

Please submit the following documents to:

Prof. Marcin Szwed, m.szwed@uj.edu.pl

Application deadline:

10-02-2022 10:00 PM

For more details about the position please visit (website/webpage address):

<http://www.szwedlab.psychologia.uj.edu.pl/>

Euraxess job/stipend offer (in case of PhD and postdoc positions):

<https://euraxess.ec.europa.eu/my/offer-postings/726927/edit?destination=/my/offer-postings>

Candidates may appeal against negative recruitment results (within 7 days of receiving feedback)

Due to the entry into force of Regulation (EU) 2016/679 of the European Parliament and of the Council of 27 April 2016, we also require that your job advertisements include a clause requesting the candidate's consent to the processing of his or her personal data by the institution which carries out the recruitment process.