1 postdoctoral position

in the scientific project

“Provability, computation and combinatorics
at the lower and intermediate levels of the Gödel hierarchy”

financed by the Polish National Science Centre (contract 2017/27/B/ST1/01951)

Principal Investigator: Leszek Kołodziejczyk

Terms of employment: full-time employment contract for a period of 12 months starting no earlier than October 1, 2019 and no later than February 1, 2020. Salary: 7000 PLN/month pre-tax.

Description of the project:

The project concerns various issues related to the provability of selected theorems from combinatorics and the theory of computation in axiomatic systems of first- and second-order arithmetic. The three main research topics are:

1. Separating hierarchies of relativized bounded arithmetic by means of combinatorial statements.
2. The strength of Ramsey-like theorems in second-order arithmetic, with an emphasis on problems concerning proof sizes.
3. The axiomatic strength required to prove classical decidability theorems, in particular decidability theorems for monadic second-order theories.

Requirements:

- A PhD degree in a discipline related to mathematical logic, obtained no earlier than 7 years before the starting date of the position.
- Research experience in an area of mathematical logic related to the topics of the project (documented by publications or preprints).

During the employment period the employee should not obtain salary under an employment contract from any other entity.

Applications: In order to apply for the position candidates should send an e-mail to lak@mimuw.edu.pl and submit the following documents as attached .pdf files:
1. a cover letter addressed to the Dean of the Faculty of Mathematics, Informatics and Mechanics, University of Warsaw together with the personal data clause (attached);
2. a copy of the PhD diploma;
3. a scientific CV with a list of publications;
4. at most three recent publications;
5. a short research statement describing past research and current research plans.

In addition, two recommendation letters by senior researchers are required. They should be sent directly to the same e-mail address.

Further information about the project and the position can be obtained from the principal investigator by email at lak@mimuw.edu.pl

**Application deadline: February 28, 2019**

Applications which do not satisfy the above requirements or are submitted after the deadline will not be considered.

The applications will be evaluated by a selection committee appointed by the Dean of the Faculty of Mathematics, Informatics and Mechanics, University of Warsaw. The committee will recommend one candidate by **March 31, 2019**. The competition is the first stage of the recruitment process as described in the Statute of the University of Warsaw, the recommendation by the selection committee being a basis for its subsequent stages.

Prof. dr hab. Paweł Strzelecki
Dean

dr hab. Leszek Kołodziejczyk
Project director
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3. Your personal data will be processed for the purpose of carrying out a recruitment process and selecting an employee and concluding a contract for employment at the University of Warsaw;
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I hereby consent to have my personal data processed by the University of Warsaw with its registered office at ul. Krakowskie Przedmieście 26/28, 00-927 Warszawa for the purpose of carrying out a recruitment process and selecting an employee and concluding a contract for employment at the University of Warsaw.

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(place and date) (signature of the person applying for employment)