

Applications are invited for a research adjunct position (postdoctoral research equivalent) at the Astronomical Observatory, University of Warsaw (Poland). Successful applicants will search for and analyze binary stellar systems using the gravitational microlensing technique. Research tasks will also involve the estimation of the mass function of stars in the Galactic bulge.

If you have questions, please send an e-mail to [hiring@astrouw.edu.pl](mailto: hiring@astrouw.edu.pl).

Requirements:

- Ph.D. in astronomy or related field (understanding of astronomical concepts will be required) received during last 7 years. This limit is extended by 18 months for women who have given birth to or adopted a child. Candidates may apply before the Ph.D. defense but will have to present a Ph.D. diploma before starting the position.
- Previous research experience and international experience adequate for the stage of the scientific career. Preferred (not required) experience in areas of: gravitational microlensing, Galactic bulge studies, analysis of large datasets, Bayesian statistics, or applying for and executing astronomical observations, in particular adaptive optics or optical interferometry.
- Good publication record.
- Good programming and data visualization skills. Experience with Linux or Mac operating systems.
- Very good communication skills in written and spoken English.

Key responsibilities:

Successful applicants will search for and analyze binary stellar systems using the gravitational microlensing technique. Research tasks will also involve the estimation of the mass function of stars in the Galactic bulge. Binary systems will be searched for in photometric databases of large-scale surveys. Binary systems found will be studied to estimate properties of the whole population (taking into account detection efficiency) and to characterize in detail the most interesting systems (e.g., systems with a tertiary body).

See also grant description at <https://projekty.ncn.gov.pl/opisy/530233-en.pdf>.

Employment details:

Candidates will be hired full-time for two and a half years with a possibility of an extension for additional two and a half years. The employment should start between January and September 2023. We offer a salary at the maximum value allowed by a grant from the Polish National Science Center. Job location: University of Warsaw Astronomical Observatory (Al. Ujazdowskie 4, 00-478 Warsaw, Poland).

Deadline for applications: Dec 5, 2022 23:00 CEST.

All documents should be sent to [hiring@astrouw.edu.pl](mailto: hiring@astrouw.edu.pl).

Required documents:

1. CV.
2. Explanation of research experience including lists of the most important publications, conference presentations, and grants.
3. Cover letter in PDF format with a signature (scanned or electronic).
4. Copy of the Ph.D. diploma.
5. Information on the processing of personal data (GDPR) – information clause and consent clause – attachment to the announcement (available on the website https://bsp.adm.uw.edu.pl/wp-content/uploads/sites/18/2021/01/Klauzula-informacyjna-przy-rekrutacji-do-pracy_11_2019_EN.docx) – the PDF format with a signature (scanned or electronic).

6. Statement on reading and accepting the rules for job applications for a position of an academic teacher at the University of Warsaw (available on the website <https://www.fuw.edu.pl/dokumenty-i-formularze.html>) – the PDF format with a signature (scanned or electronic).

Candidates should arrange for 1-3 confidential recommendation letters to be sent to hring@astrouw.edu.pl by Dec 5, 2022.

This job advertisement is the first step of the hiring process. Selected candidates will be required to present original documentation. The candidates have to conform to the conditions stated in art. 113 of Higher Education Law dated Jul 20, 2018 (Journal of Laws of the Republic of Poland 2022, item 574). Selected candidates will be informed about an interview with the selection committee individually. The selection process is expected to conclude by Jan 15, 2023. The candidates will be informed individually about the results via e-mail. The results will also be presented on the University of Warsaw Astronomical Observatory website.