



Two post-doctoral positions in observational astronomy

Applications are invited for 2 post-doctoral positions at the Nicolaus Copernicus Astronomical Center of the Polish Science Academy (CAMK PAN), in Warsaw, Poland, in the field of extragalactic distance scale. CAMK PAN is the leading astrophysical institute in Poland, hosting about 50 staff researchers and 30 PhD students. CAMK PAN scientists participate in many international projects.

Project description

Successful applicants will work with Prof. Grzegorz Pietrzyński as the Principal Investigator on the project “Sub-percent calibration of the extragalactic distance scale in the era of big surveys” - UniverScale. The positions will be funded from the European Research Council Synergy grant, agreement no 951549. The project will be implemented for 6 years starting from 1st November 2021 by a consortium formed by the following institutions: the Nicolaus Copernicus Astronomical Center of the Polish Academy of Sciences (CAMK PAN) - Poland as a consortium leader and: Observatoire de Paris - France, Universidad de Concepcion - Chile, Center for Theoretical Physics of the Polish Academy of Sciences (CFT) – Poland, Heidelberg Institute for Theoretical Studies – Germany as consortium partners. The main goal of the project - the improved calibration of the extragalactic distance scale is a common goal to all consortium members and very different approaches will be applied to reach this goal. The UniverScale project presents a novel and unique application of several expertise from very different fields of astrophysics from studies of nearby stars (interferometry, parallaxes, astrometric binaries), Cepheids, through galaxies (eclipsing binaries, IRSB method, Cepheids) up to cosmology (SN Ia, AGNs, Hubble constant). Therefore, a team of experts who covers all aspects of the proposed project and who have pioneered many important studies on the extragalactic distance scale has been assembled. Furthermore, CAMK PAN operates a collection of small telescopes located in Cerro Armazones Observatory, Chile, just in front of the construction place of the E-ELT. Exceptional weather conditions make this observatory an excellent tool for implementing research projects. CAMK PAN plans to significantly expand this observatory by building 4 new telescopes (0.6 – 2.5 m), from which the biggest one, the 2.5 m telescope is planned to be constructed within the framework of the UniverScale project. Therefore candidates with observing / instrumental skills would find an excellent environment.

One post-doctoral position is offered for 1 year, while the other one is offered for 3 years, both of them with a possibility of extension. The preferred starting date for both positions is 1st November 2021, but is to some extent negotiable. The salary of the successful candidate will be comparable to that of Polish researchers at the same career stage. Successful candidates can also profit from the relocation costs reimbursement scheme according to CAMK PAN internal rules.

Positions and requirements description

Post-doc position 1

Number of available positions: 1

Form of engagement: 1 year, employment contract

Place of employment: CAMK PAN, Warsaw, Poland

Requirements to be met by candidates include the following:

1. PhD degree in physics or astronomy
2. proven publication record
3. experience in work in the field of pulsating stars and binary systems
4. experience in distance determinations to nearby galaxies
5. good command of English to enable efficient communication with the team and preparation of scientific reports and publications
6. additional assets: enthusiasm for work, independence, high personal culture, ability to work in a team

The selection criteria include (equally weighted):

- 1) qualifications
- 2) professional experience (including informally acquired experience) and experience in supervising scientific research conducted by junior colleagues
- 3) mobility related to scientific, organizational and teaching experience

Applying candidates should submit the following documents (in pdf format):

- 1) a copy of the PhD diploma;
- 2) a scientific curriculum vitae detailing research, teaching and organisational activities and a list of publications including the most important ones;
- 3) signed GDPR information clause available at:
https://www.camk.edu.pl/en/media/uploads_current/intranet/dokumenty/ogolne/2018/gdpr.pdf
- 4) other documents proving the fulfilment of the competition criteria
- 5) short statement of research achievements and scientific plans (maximum 2 pages)

The above mentioned documents should be submitted by e-mail with a subject "UniverScale Post-doc position 1" to recruitment@camk.edu.pl by **7th October 2021, 23:00 CET** as the latest

Questions about the position can be sent to: pietrzyn@camk.edu.pl

The selection of candidates will be executed by a 3-member selection committee in accordance with the *"Resolution of the Scientific Council of the Copernicus Astronomical Centre of the Polish Science Academy (CAMK PAN) on establishing the regulations for the competition for positions of scientific employees at CAMK PAN"*.

The review of applications will begin soon after the deadline and continue until the position is filled. Complaints on the competition results shall be presented by e-mail to recruitment@camk.edu.pl within 2 days after receiving the information on the outcomes of the recruitment process and they will be taken up by the selection committee right after this deadline.

Post-doc position 2

Number of available positions: 1

Form of engagement: 3 years, employment contract

Place of employment: CAMK PAN, Warsaw, Poland

Requirements to be met by candidates include the following:

1. PhD degree in physics or astronomy
2. proven publication record
3. experience in work in the field of pulsating stars and binary systems
4. experience in distance determinations to nearby galaxies
5. good command of English to enable efficient communication with the team and preparation of scientific reports and publications

6. additional assets: enthusiasm for work, independence, high personal culture, ability to work in a team

The selection criteria include (equally weighted):

- 1) qualifications
- 2) professional experience (including informally acquired experience) and experience in supervising scientific research conducted by junior colleagues
- 3) mobility related to scientific, organizational and teaching experience

Applying candidates should submit the following documents (in pdf format):

- 1) a copy of the PhD diploma;
- 2) a scientific curriculum vitae detailing research, teaching and organisational activities and a list of publications including the most important ones;
- 3) signed GDPR information clause available at:
https://www.camk.edu.pl/en/media/uploads_current/intranet/dokumenty/ogolne/2018/gdpr.pdf
- 4) other documents proving the fulfilment of the competition criteria
- 5) short statement of research achievements and scientific plans (maximum 2 pages)

The above mentioned documents should be submitted by e-mail with a subject "UniverScale Post-doc position 2" to recruitment@camk.edu.pl by **7th October 2021, 23:00 CET** as the latest. Questions about the position can be sent to: pietrzyn@camk.edu.pl

The selection of candidates will be executed by a 3-member selection committee in accordance with the *"Resolution of the Scientific Council of the Copernicus Astronomical Centre of the Polish Science Academy (CAMK PAN) on establishing the regulations for the competition for positions of scientific employees at CAMK PAN"*.

The review of applications will begin soon after the deadline and continue until the position is filled. Complaints on the competition results shall be presented by e-mail to recruitment@camk.edu.pl within 2 days after receiving the information on the outcomes of the recruitment process and they will be taken up by the selection committee right after this deadline.