

FORM FOR EMPLOYERS

INSTITUTION Nicolaus Copernicus Astronomical Center of the Polish Academy of Sciences
(CAMK PAN)

CITY Warsaw, Poland

POSITION One technic specialist position in the field of extragalactic distance scale

DISCIPLINE Astronomy

POSTED 6.08.2024

EXPIRES 26.08.2024

WEBSITE www.camk.edu.pl

KEY WORDS Astronomy

DESCRIPTION (field, expectations, comments)

One technic specialist position in the field of extragalactic distance scale

Applications are invited for 1 technic specialist position at the Nicolaus Copernicus Astronomical Center of the Polish Academy of Sciences (CAMK PAN), in Warsaw, Poland, in the field of extragalactic distance scale.

Job description

The successful candidate will work with prof. Grzegorz Pietrzynski and dr. Marek Górski on the precision calibration of the tip of the red giant branch (TRGB) and J-region asymptotic giant branch (JAGB) methods. The calibrations will be based on multiband photometric data and geometrical distances recently obtained by the Araucaria team together with data from several archives. The calibrations will play a very important role to measure cosmic distances up to 50 Mpc, determine precisely the Hubble constant, and shed more light of the famous Hubble Tension puzzle.

The successful applicant will work as a member of the Araucaria Group (<https://araucaria.camk.edu.pl/>) planning and executing observations (including those at Cerro Murphy Observatory in Chile), reducing and analyzing the obtained photometric data.

The successful applicant is expected to develop software necessary to achieve the project goals as well as to regularly present and publish the results of her/his work. Experience in observations, analysis of observational data, modern statistical methods and high-level programming languages knowledge (Python preferred) will be considered as assets.

Benefits

The position will be funded from the European Research Council Synergy grant, agreement no 951549 "Sub-percent calibration of the extragalactic distance scale in the era of big surveys" - UniverScale. The person employed will be a member of the international Araucaria Group

(<https://araucaria.camk.edu.pl/>) with guaranteed access to many telescopes. Observing expeditions and extended research visits to our partner institutions in Chile, France and Germany will be possible. Furthermore, the Araucaria Group has access to all telescopes located in Chile. It also operates a dedicated observatory – Cerro Murphy Observatory in Chile, which hosts 5 small telescopes (0.6-1.5m), located by the construction place of the 40-m ELT. Exceptional weather conditions make this observatory an excellent tool for long term monitoring of variety of distance indicators. In 2025, a 2.5 m telescope is scheduled to be constructed in our observatory, together with several modern instruments, within the framework of the ERC project. Therefore, candidates with observing / instrumental skills would find an excellent environment for their scientific development.

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. The research lines in CAMK, possibilities to develop career for young researchers, and life at the institute are presented in three movies [available here](#).

CAMK PAN is an equal-opportunity employer and supports equal opportunities and diversity in its personnel policy.

The successful applicant will be offered an employment contract with excellent salary and working conditions. The employment contract embraces social security, public medical care, and participation in national pension scheme as well as access to non-public medical care and sports activities co-financed by the employer. She/he can also profit from the relocation costs reimbursement scheme according to CAMK PAN internal rules.

The successful applicant who is not citizen of a member country of the European Union must keep in mind that, prior to signing the contract, she/he must obtain a residence and work permit or visa (according to rules established between Poland and the country of the applicant origin).

Position and requirements description

The technic specialist position is offered for 3 years . The preferred starting date for the position is November 1st 2024, but it is to some extent negotiable. The successful applicant is expected to complete and defend a PhD thesis based on the obtained results of her/his work.

Form of employment: employment contract

Place of employment: CAMK PAN, Warsaw, Poland

Requirements to be met by candidates include the following:

- 1) at least a Bachelor degree in physics or astronomy;
- 2) experience in data reduction, analysis, and observations;
- 3) good programming skills;
- 4) good command of English;
- 5) 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);
- 3) mobility related to scientific and organizational experience.

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

- 1) copy of the Bachelor (or higher) degree diploma;
- 2) scientific curriculum vitae;
- 3) motivation letter
- 4) 2 support letters (provided by email)
- 5) scan of printed and signed information clause [available here \(PDF format\)](#);

- 6) other documents proving the fulfilment of the competition criteria;
- 7) short statement of research achievements.

The above mentioned documents should be submitted by e-mail with a subject "UniverScale Research assistant position" to recruitment@camk.edu.pl by **August 26th, 2024, 23:59 CET** as the latest.

Questions about the position can be sent to: prof. Grzegorz Pietrzynski pietrzyn@camk.edu.pl (PI) and/or Ksenia Kempa kkempa@camk.edu.pl the Project Coordinator.

The selection of candidates will be executed by a 4-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"*. Shortlisted candidates can expect an invitation for a zoom interview.

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 3 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.