

Project title: James Webb Telescope - Evolution of the star-forming galaxies out to $z \sim 12$.

Position: Scholarship Student

Number of positions: 1

City: Toruń

Website: <https://www.fizyka.umk.pl/en/>

Requirements:

- Fluency in written and spoken English is essential
- Python software configuration is a plus

Description of duties:

The student will work with Dr. Maciej Koprowski to determine the evolution of star-forming galaxies in the early Universe. The project involves working with data from some of the most advanced telescopes (JWST, ALMA, JCMT, Herschel, Spitzer, Hubble, etc.), writing their own code to analyze the data, and publishing the results in international journals.

Tasks:

- Calibration of the relation between the far-IR luminosity of galaxies and the UV slope out to $z \sim 12$
- Relating the stellar mass of galaxies to their IR luminosity out to $z \sim 12$
- Describing the evolution of interstellar dust properties over time up to $z \sim 12$

Competition type: SONATA Bis

Field of science: ST

Application deadline: 30 June 2026, 23:59

Application form: e-mail

Employment conditions:

The stipend amounts to PLN 4,900 per month for the first 21 months of the project, increasing to PLN 6,500 per month for the next 21 months.

Planned employment period: up to 42 months, from September 1, 2026, to February 28, 2030.

Additional information:

The scholarship is awarded in accordance with the rules set out in the Regulations on the Award of Research Scholarships of the National Science Centre, adopted by Resolution No. 25/2024 of the Council of the National Science Centre dated 4 March 2024..

Required documents (please send these to the project manager's email address: mkoprowski@umk.pl, with the subject line 'SONATA Bis'):

- Cover letter
- CV
- Copies of obtained diplomas and certificates (if any)
- Copy or scan of candidate's publications (if any)
- Information about scientific awards, scholarships and other distinctions (if any)
- Description of current research activity (if applicable)
- Consent to the processing of personal data (https://view.officeapps.live.com/op/view.aspx?src=https%3A%2F%2Fwww.umk.pl%2Fuczelnia%2Fiod%2FKonkurs_EN.docx&wdOrigin=BROWSELINK).
- Certificate of student status

Applicants will be evaluated by a selection committee appointed by the Dean of the Faculty of Physics, Astronomy and Informatics. The committee will recommend the awarding (or rejection) of the scholarship no later than 15th of August 2026.

Candidates will be notified of the outcome of the competition by e-mail.

In the event of resignation of the selected candidate, the right to indicate the next candidate from the ranking list is reserved.

All documents should contain the candidate's signature or its scan.

Language of application: Polish or English.