

## **Call for Applications – Research Scholarship**

**Institution:** Nicolaus Copernicus University in Toruń, Faculty of Chemistry

### **Requirements:**

- MSc degree in Chemistry or Physics
- Fluency in English
- Scientific curiosity and flexibility
- Ability to work both independently and collaboratively

### **Project Description:**

The scholarship holder will:

- Investigate charge migration in mixed-valence compounds, with particular emphasis on diamine molecules and their cations, whose conformers exhibit different degrees of charge localization.
- Evaluate the performance of quantum chemical methods in describing transitions between localized and delocalized electronic states in small diamine molecules.
- Establish computational protocols applicable to larger, technologically relevant systems, such as photoactive molecules used in photovoltaics.
- Provide theoretical insights that complement experimental observations of ultrafast charge transfer processes occurring on the femtosecond timescale ( $10^{-15}$  s).

**NCN Call Type:** SONATA 19

**Application Deadline:** 26 January 2026, 00:00 (midnight)

**Application Procedure:** Applications should be submitted by email.

### **Employment Conditions**

- **Scholarship duration:** 33 months
- **Scholarship amount:** 4 000 PLN gross per month
- **Planned project start date:** 1 February 2025

### **Additional Information**

Only selected candidates will be contacted. Incomplete applications will not be considered. The selection committee will evaluate candidates based on their competencies, previous experience in related research, awards and distinctions, and the quality of scientific publications (if applicable).

**IMPORTANT:** Please include the following phrase in the subject line of your email:  
**“SONATA19, recruitment”**

By submitting an application, the candidate consents to the processing of personal data by Nicolaus Copernicus University in Toruń for recruitment purposes.

### **Required Documents**

Applications should include:

1. Curriculum vitae with contact details, including information on scientific achievements, internships, and training
2. Motivation letter
3. Confirmation of PhD student status

### **Contact and Submission**

Applications should be sent to: **[marta.galynska@umk.pl](mailto:marta.galynska@umk.pl)**