

Report of the Admissions Committee regarding the qualification of a doctoral student for a scholarship
under the

NCN OPUS grant (2025/59/B/ST4/02159)

On August 26, 2026, a meeting was held of a three-member committee appointed by decision of the Dean of the Faculty of Chemistry (at the request of the grant principal investigator), composed of: the grant principal investigator, Prof. Dr. hab. Katharina Boguslawski (Committee Chair), Dr. hab. Anna Kaczmarek-Kędziera, Dr. Saikat Mukherjee, to select three doctoral student-scholarship recipients for the project titled "Accelerating Simplified Coupled Cluster Models by Means of Quantum-Information- and Correlation-Driven Domains and Machine Learning." The announcement was posted on the NCU website from August 11 to 25, 2026.

Three candidates applied for the doctoral stipend position (one for each stipend): Emil Sujkowski, Julia Szczuczko, and Julian Świerczyński. In accordance with the NCN regulations for awarding research fellowships, which recommend scoring candidates' academic records and achievements, the committee evaluated the candidates based on:

- the candidate's academic record, including publications in reputable scientific journals (50% of the final score) **[0–4 points]**
- achievements resulting from conducting scientific research, fellowships, awards, and scientific experience gained domestically or abroad, scientific workshops and training, and participation in research projects (20% of the final score) **[0–4 points]**
- competencies to carry out specific tasks within the research project (30% of the final grade) **[0–3 points]**

The Committee concluded as follows:

Stipend 1 (Candidate: Emil Sujkowski):

- The candidate has two scientific publications in international journals to his credit. The Committee awarded the candidate **3 points** in the scientific achievements category.
- The candidate actively participated in various research projects related to computational quantum chemistry, scientific programming, and method development in theoretical chemistry, received a stipend from the Ministry for his scientific achievements, and attended scientific conferences (poster presentations). The Committee awarded **4 points** for the above achievements.
- The candidate possesses specialized knowledge of quantum mechanics and the fundamentals of modern programming languages, such as Python. The candidate is also fluent in English. The Committee awarded **3 points** for the above competencies.

In summary, the Committee concluded that the candidate possesses the qualifications required to carry out the project and recommends the application of Emil Sujkowski for a doctoral fellowship under the NCN OPUS program (2025/59/B/ST4/02159).

Stipend 2 (Candidate: Julia Szczuczko):

- The candidate has two scientific publications in international journals to her credit. The Committee awarded the candidate **4 points** in the scientific achievements category.
- The candidate actively participated in various research projects related to computational quantum chemistry, scientific programming, and method development in theoretical chemistry, and attended

scientific conferences (poster presentations). The Committee awarded **4 points** for the above achievements.

- The candidate possesses specialized knowledge of quantum mechanics and the fundamentals of modern programming languages, such as Python. She is the lead developer of a stand-alone CT analysis tool. The candidate is also fluent in English. The Committee awarded **3 points** for the above competencies.

In summary, the Committee concluded that the candidate possesses the qualifications required to carry out the project and recommends the application of Julia Szczuczko for a doctoral fellowship under the NCN OPUS program (2025/59/B/ST4/02159).

Stipend 3 (Candidate: Julian Świerczyński):

- The candidate has five scientific publications in international journals to his credit. The Committee awarded the candidate **4 points** in the scientific achievements category.
- The candidate actively participated in various research projects related to computational quantum chemistry, scientific programming, and method development in theoretical chemistry, received two stipends from the Ministry for his scientific achievements, attended scientific conferences (poster presentations), and obtained a Mitacs-Globalink Research Award for a research stay in Canada (on ML). The Committee awarded **4 points** for the above achievements.
- The candidate possesses specialized knowledge of quantum mechanics and the fundamentals of modern programming languages, such as Python. The candidate is also fluent in English. The Committee awarded **3 points** for the above competencies.

In summary, the Committee concluded that the candidate possesses the qualifications required to carry out the project and recommends the application of Julian Świerczyński for a doctoral fellowship under the NCN OPUS program (2025/59/B/ST4/02159).

The Committee:



Dr. hab. Anna Kaczmarek-Kędziera, prof. UMK

Dr. Saikat Mukherjee

Prof. Dr. hab. Katharina Boguslawski (Committee Chair, Principal Investigator)

The Committee Chair prepared this report on August 26, 2026