



Established researcher position: Faculty of Chemistry NCU

Place:	Nicolaus Copernicus University in Toruń
Location:	Toruń, Poland
Research field:	Quantum chemistry, Computational chemistry
Research profile:	Established Reasercher (R3)
Application deadline:	19/05/2023 23:00 - Europe/Brussels (CET)
Type of contract:	Temporary
Job status:	Full-time
Hours:	40 hours per week
Offer starting date:	01/10/2023

Description (field, expectations, comments):

Faculty of Chemistry at the Nicolaus Copernicus University in Toruń, Poland, invites applications for assistant professor positions in the general field of computational chemistry, quantum chemistry, theoretical spectroscopy, materials modeling. The candidate's research profile should complement and connect with the existing expertise of the Molecular Modeling Group in the Department of Chemistry of Materials, Adsorption and Catalysis. In particular, we seek candidates with expertise in the following research areas:

- computational photophysics and photochemistry;
- theoretical modeling of excited states of fluorophores in condensed phases;
- ab-initio and non-adiabatic excited-state molecular dynamics;
- solid-state molecular modeling;
- development of quantum chemistry methods;
- machine learning approaches in photophysics, photochemistry and/or material science;
- multiscale materials modeling.

However, we will be happy to consider all applications where the researcher complements the competencies of our group and meets high scientific standards.

The Molecular Modeling Group is a newly established team with a research interest focusing on molecular modeling and quantum chemical calculations for organic photosensitive materials, biomolecule applications, rational design of fluorophores, and the influence of intermolecular interactions on photophysical properties and reactivity of molecules. The detailed informations can be found on the web page: <https://www.chem.umk.pl/en/molmod/>. The candidate is also expected to benefit from the University Centre of Excellence "Astrophysics and Astrochemistry". The Centre was established on January 1, 2020 for 6 years as a result of the prestigious "research university" status granted to the Nicolaus Copernicus University in Toruń by the Ministry of Science and Higher Education. The Centre gathers key researchers from the University in the fields of astronomy and quantum chemistry. More information is available on our website: <https://astrochem.umk.pl/en/>.

The position is limited to 33 months and may be extended permanently after a positive evaluation.

Additional information:

The candidates should have a Ph.D. in chemistry, physics or a related field, good knowledge of written and spoken English. The gross salary is 9000 PLN (1900 EUR)/month with teaching duties not exceeding 60 hours per year (in English). Note that the average cost of living in Toruń is 4000 PLN (850 EUR). The selected candidate may also apply for additional external grants and funding (such as from Polish National Science Centre) with the support of the team members and in the case of success, this can result with an additional salary.

All interested candidates should send their curriculum vitae, list of publications, a cover letter outlining their research interests, teaching experience, and motivation to join the group, and arrange for up to three letters of reference. A full list of required documents is published on the website: <https://astrochem.umk.pl/en/job-offers/>. Please send all applications and reference letters to astrochem@umk.pl (Subject: post-doc in chemistry opening). The employment is expected to start on **October 1, 2023**, but a later date may be negotiated.

Offer requirements: The competition is open to persons who meet the conditions set out in Article 113 of the Act of 20 July 2018 - Law on higher education and science (Journal of Laws of 2018, item 1668) and fulfill the following qualification criteria:

- PhD in chemistry, physics or a related field;
- Excellent scientific achievements in computational/quantum chemistry;
- A track record of being the leading author (first or corresponding author) is essential;
- Good knowledge of written and spoken English;
- Eagerness to perform research and build an independent research group;

- Declaration of conducting research in a field of chemistry;

Required documents:

- Personal questionnaire for the person applying for employment ([download here](#))
- Professional curriculum vitae;
- Copy of higher education diploma;
- Copy of doctorate certificate;
- Information about scientific, didactic and organizational achievements (abstract comprising candidate's most important areas of research, and scientific, educational, and other achievements);
- List of publications (including the publishing house/journal, year of publication, and page number);
- A cover letter outlining their research interests, motivation to join the Centre and to establish a new research group (addressed to Professor Andrzej Sokala, Rector of the Nicolaus Copernicus University in Toruń);
- Declaration of consent to the processing of personal data contained in the job offer for the needs of the recruitment process, in accordance with the Regulation (EU) 2016/679 of the European Parliament and of The Council of 27 April 2016 (L119/1) ([download here](#));
- Declaration under Art. Paragraph 113 (1) of the Higher Education Act (of no criminal record) ([download here](#));
- Declaration that Nicolaus Copernicus University in Toruń will be the primary employer once the contest has been won ([download here](#)).