Senior Research Scientist (R3 – Established Researcher)

The Institute of Inorganic Chemistry of the Slovak Academy of Sciences (Department of Hydrosilicates) invites applications for a research position in the field of theoretical surface photochemistry.

Job Description & Responsibilities:

- The position focuses on investigating the interactions of photoactive organic molecules with the surfaces of inorganic supports, particularly clay minerals.
- Modeling and predicting the structural, electronic, and photophysical properties of photoactive molecules and their hybrid systems with inorganic carriers using theoretical and computational chemistry methods (primarily DFT, TD-DFT, CIS(D), and QM/MM).
- Interpreting experimental data obtained using molecular spectroscopy techniques through theoretical and computational chemistry methods.
- Publishing research findings in international peer-reviewed scientific journals indexed in Web of Science or Scopus.
- Presenting research findings at international scientific conferences.
- Supervising PhD students, Master's students, and visiting students, as required.
- Actively participating in the institute's research projects.

Employee Benefits:

- Flexible working hours
- 45 days of paid annual leave
- Opportunity for engaging and creative work within the research environment of the Slovak Academy of Sciences (SAV)

Employment Type:
Fixed-term employment contract (24 months), part-time position (30% FTE).

Job Location:
Bratislava, Slovakia

Salary Conditions:
EUR 1,000 – 1,300 gross/month

Application deadline:
December. 17, 2026

Expected interview dates:
December. 21, 22., 2026

Expected start date:
January. 1, 2027

Requirements for the Candidate:

Education:

- PhD degree in Chemistry (Theoretical and Computational Chemistry or Physical Chemistry). Required qualification level IIa or equivalent.

Skills and Qualifications:

Based on their previous research activities and publication record, applicants should demonstrate expertise and competencies in the following areas:

- Modeling the structural, electronic, and photophysical properties of photoactive molecules.
- Ability to independently design and carry out research tasks using advanced theoretical and computational chemistry methods.
- Experience in integrating quantum chemical calculations with experimental molecular spectroscopy data, particularly UV-Vis, fluorescence, and infrared (IR) spectroscopy.
- Experience in participating in national and international research projects.
- Ability to conduct independent scientific research, engage in international collaborations, and supervise junior researchers.

Additional qualifications considered an advantage:

- Knowledge of advanced methods for modeling excited states, photochemical processes, and hybrid organic–inorganic systems, including the application of QM/MM methods and the simulation of vibronic spectra.

Language Skills:

- English – C1 level

Application Process:

If you are interested in this position, please send the list of required documents electronically to the email address petra.polakovicova@savba.sk no later than December 17, 2026.

Required Documents:

- Curriculum Vitae (CV) in Europass format
- Copies of diplomas proving the achieved level of education and academic degrees, including any scientific qualification degrees
- Overview of scientific research results, including a full publication list
- List of citations
- List of research projects participated in to date
- Solemn declaration of full legal capacity
- Consent to the processing of personal data
- Criminal record check (not older than three months)