

## Research projects: «Chemistry & Materials Science»

| No | University   | Research project   | Head of research project        | Link to research project  |
|----|--|--|---------------------------------|---|
| 1. | Kazan (Volga region) Federal University  | Kinetic modeling of heavy oil component transformation during non-catalytic and catalytic aquathermolysis  | Varfolomeev Mikhail Alekseevich | <a href="https://kpfu.ru/eng/admission/the-international-olympiad-organized-by-global/postdoc-track-olympics-program">https://kpfu.ru/eng/admission/the-international-olympiad-organized-by-global/postdoc-track-olympics-program</a> |
| 2. | Kazan (Volga region) Federal University  | Establishing Reaction Schemes and Evaluating Kinetic Parameters of Heavy Oil Aquathermolysis in the Presence of Various Additives Based on Experimental Data Using a Kinetic Approach and Building Systems of Differential Equations for the Processes | Varfolomeev Mikhail Alekseevich | <a href="https://kpfu.ru/eng/admission/the-international-olympiad-organized-by-global/postdoc-track-olympics-program">https://kpfu.ru/eng/admission/the-international-olympiad-organized-by-global/postdoc-track-olympics-program</a> |
| 3. | University of Science and Technology MISIS                                     | Biomaterials and biomedical engineering  | Senatov F.S.                    | <a href="https://en.misis.ru/files/-/501558e2b206638ccb5ce154f8049e34/nip_bio_e.pdf">https://en.misis.ru/files/-/501558e2b206638ccb5ce154f8049e34/nip_bio_e.pdf</a>   |
| 4. | Ural Federal University named after the first President of Russia B.N. Yeltsin | Application of photo- and mechanical activation methods for the synthesis of promising azaheterocycles and their derivatives   | Zyryanov Grigory Vasilievich    | <a href="https://urfu.ru/en/research/postdoc-fellowship-program/opendoors/chemistry-and-materials-science/">https://urfu.ru/en/research/postdoc-fellowship-program/opendoors/chemistry-and-materials-science/</a>                     |
| 5. | Southern Federal University  | Analysis of big experimental data based on supercomputer modeling and machine learning technologies  | Alexander Soldatov              | <a href="https://www.study.sfedu.ru/postdocs_proj1_eng">https://www.study.sfedu.ru/postdocs_proj1_eng</a>   |
| 6. | Southern Federal University  | Development and prediction of advanced novel materials properties using computer modeling and machine learning methods   | Alexander Soldatov              | <a href="https://www.study.sfedu.ru/postdocs_proj3_eng">https://www.study.sfedu.ru/postdocs_proj3_eng</a>   |