



Within the Project “Topological order of electrons in solids: New materials, Phenomena & application Concepts (UKRATOP)” which is funded by the Federal Ministry of Education and Research (BMBF) and which aims at establishing an Ukrainian-German Excellence Center for Topological Matter, we invite **applications for several scholarships available for young Ukrainian researchers (MSc students, PhD students, and PostDocs)** to support joint research of Kyiv Academic University (KAU) and IFW Dresden/TU Dresden. The scholarships are offered to:

MSc students (up to 5 student assistants for 6 months each): ca. 800 Euro/month + student’s fee and health insurance,

PhD students (up to 5 scholarships for 2 years each): 1,250 Euro/month + student’s fee and health insurance,

PostDocs (up to 4 scholarships for 18 months each): 2,500 Euro/month,

in one of three specializations: materials, experiment, or theory.

The idea of these scholarships is to stimulate the joint research between Ukrainian and German scientists represented in this project by KAU and IFW Dresden, respectively. The MSc and PhD students are expected to defend their degrees in Ukraine that requires the established collaboration between Ukrainian and German scientific supervisors of each student.

The research topics are related with topological ordering of electrons in solids, and cover new materials, phenomena and applications. The scientific goal of this project is to grow high-quality new materials both in the form of crystals and as well-characterized heterostructures and to determine their topological electronic and magnetic properties. The successful candidates, depending on specialization (materials, experiment, or theory), will join the research groups at IFW Dresden. For further information on research topics see

Experiment: <https://www.ifw-dresden.de/institutes/iff/>

Materials: <https://www.ifw-dresden.de/institutes/iff/synthesis-and-crystal-growth/>

Theory: <https://www.ifw-dresden.de/institutes/itf/>

More details about the Project and each specialization can be found here:

<https://ukratop.ifw-dresden.de>

To apply, send a copy of your CV and cover letter indicating your interest in the project and why you wish to undertake it to Prof. Alexander Kordyuk (kordyuk@imp.kiev.ua, +380 95 0104594). The CV should include information about prior education, previous research which you have performed, the list of your publications (if any), and the names and contact addresses of two referees. The applications of master and PhD students should be submitted before May 15, 2019. The scholarships should be available from 1 October, 2018.

There is no deadline for the submission of PostDoc applications and scholarships are available at any time.

All applications should be submitted in English.

Please note: You will be informed by May 18, 2019 if you are invited to join the UKRATOP **selection workshop on May 28, 2019 at KAU**. A ten-minute talk in English is expected from each invited candidate.

The Leibniz Institute for Solid State and Materials Research Dresden - in short IFW Dresden – is a non-university research institute and a member of the Leibniz Association. It is concerned with modern materials science and combines explorative research in physics, chemistry and materials science with technological development of new materials and products. The IFW employs about 600 people and besides enhancing fundamental and applied research development one focus is on the training of young scientists. Further information at: <http://www.ifw-dresden.de>.

The IFW would like to increase the proportion of women in science. Qualified women are therefore explicitly invited to apply.

Severely disabled applicants are given preferential treatment if they have the same qualifications.