

To the Committee of the “Bolashak” program

Project “500 scientists”

01.07.2025

## Subject: Invitation letter for Asel Duisenbek

Dear Committee Members,

I am pleased to notify that Mrs. Asel Duisenbek is highly welcome at the University of Freiburg, Department of Sustainable Systems Engineering, for a period abroad during her PhD studies provided that her application to the “500 scientists project” within the Bolashak program will be successful and a scholarship be granted to her. And it is my pleasure to write this letter to support her application.

During the internship, she will have the opportunity to collaborate with leading experts and work on cutting-edge projects that contribute to the advancement of knowledge in the fields of energy efficiency, biomass applications, and electrochemical storage systems. The practical part of the research internship is planned for the period from July 16<sup>th</sup>, 2025, to December 31<sup>st</sup>, 2025 and will correspond to her doctoral research in «Applied Physics» on the synthesis and application of low-dimensional carbon materials derived from biomass for electrochemical energy storage systems. The research proposal of Mrs. Asel Duisenbek focuses on the synthesis and characterization of carbonaceous materials derived from biomass for supercapacitors applications. This subject perfectly matches with the focus of our research topics, which are based on the synthesis and evaluation of novel active materials for energy storage, such as batteries and supercapacitors. For these reasons, I see a lot of beneficial interactions between my group and the work of Mrs. Duisenbek.

To use the laboratory facilities at Universität Freiburg and to cover the experimental part of the scientific internship for Mrs. A. Duisenbek, a total payment of 15,000 EUR is required. An explanation of internship calculations is below:

- Scientific supervision, mentoring and consultation: 10.000,00€
- Consumable materials: 5.000 €

**€ Total: 15.000,00.**

I am prepared to co-supervise her during her period in Freiburg, and we will provide her with all the necessary workspace and facilities to carry out his research at the University of Freiburg and at Fraunhofer ISE, where my group is based.

Mrs. Asel Duisenbek must provide insurance covering her individual civil/private liability during her stay, which may be caused by personal circumstances that cause damage to a third party or the staff of the host laboratory during her stay. She will also provide a health insurance certificate valid for the entire duration of her stay in Germany. We understand that her scholarship will provide all the necessary funding for the visit.

Sincerely yours,

Sonia Dsoke  


## University of Freiburg

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**POLITECHNIKA POZNAŃSKA**

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Poznań, July 30<sup>th</sup>, 2024

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**Subject: To whom it may concern**

This is to certify that Ms. Asel Duisenbek from Satbayev University, Almaty, Republic of Kazakhstan, completed an internship at the Poznań University of Technology, Poland, from 1<sup>st</sup> July 2024 to 30<sup>th</sup> July 2024. During this period, she collaborated with my research group. She focused on the synthesis and investigation of low-dimensional carbons obtained from biomass for electrochemical energy sources applications.

The results of this research are planned to be published in scientific journals. These works will provide a basis for further collaboration in the future.

Sincerely yours,

**Qamar Abbas**, Assoc. Prof. Dr. habil. Dr. techn.

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