

Call for Participation

“AGYA Winter School: Quantum Materials for Energy and Environment Relevant Technologies”

organised by
the Arab-German Young Academy of Sciences and Humanities (AGYA)

Qatar, 2-3 December 2023

We are delighted to announce the upcoming AGYA Winter School on *Quantum Materials for Energy and Environment Relevant Technologies*. This highly anticipated educational program, collaboratively organized by the Arab-German Young Academy of Sciences and Humanities (AGYA) and hosted by Carnegie Mellon University in Qatar, seeks to offer Arab and German students with a unique opportunity to explore the fascinating world of quantum materials and energy technologies.

The AGYA Winter School is designed with the purpose of promoting both theoretical and experimental research in the field of advanced quantum materials and their applications in energy-related domains. Through a carefully curated curriculum, participants will explore the fundamental principles, potential applications, and the latest advancements in this dynamic scientific field. One of the most significant features of this event is the seamless integration of talented students with a community of renowned international experts in the field of quantum technology.

By facilitating direct interactions and engaging discussions, the AGYA Winter School will foster an intellectually stimulating environment, encouraging the exchange of ideas and the exploration of innovative research paths. Moreover, the Winter School will serve as an exceptional platform for international and interdisciplinary networking. Participants will have the opportunity to connect with peers and professionals from different countries, establishing valuable relationships that may extend well beyond the confines of the event.

The Winter School takes place at Carnegie Mellon University in Qatar, a vibrant campus and hub of knowledge exchange in Qatar. High-ranking international speakers and trainers, among them AGYA members and alumnae/i, will train the participants in the highly innovative field of *Materials for Energy Technologies*.

The event is open for graduate students from various disciplines in the technical sciences and natural science with a particular research interest in new materials used in energy technologies. Through poster presentations, the participating students have the opportunity to present their research to an expert audience and to exchange research ideas related to materials for energy technologies.

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Topics:

The Winter School provides the participants with the following cutting-edge theoretical and methodological knowledge on research of innovative materials as well as with aspects of outreach and science communication:

- Material development for energy systems,
- Working principles of various energy-based materials for future applications,
- Design of energy materials from a theoretical point of view,
- Outreach and science communication: Working outside the lab.

Eligibility:

Eligible for participation are graduate students:

- with a background in the natural sciences and technical sciences,
- graduated between 2019 to 2022 (Master student level or early PhD stage),
- from a universities/research institutions in Germany or any Arab country,
- with a very good command of English,
- conducting a research project related to materials and energy technologies.

Application Documents to be send in ONE PDF file:

- Curriculum vitae (not more than two pages)
- Abstract for poster presentation (max. of 1000 words)
- Motivation letter (not more than one page)
- Copy of Bachelor/Master degree certificates

Interested candidates are invited to submit their application in English until 15 September 2023 to winterschool@agya.info. All applications will be evaluated by an interdisciplinary scientific committee. Selected applicants will be informed on 30 September 2023 at the latest.

Important Dates

15 September 2023: Submission deadline

30 September 2023: Notification of selected applicants

2-3 December 2023: Winter School in Qatar

About the Arab-German Young Academy of Sciences and Humanities (AGYA)

The Arab-German Young Academy of Sciences and Humanities (AGYA) is based at the Berlin-Brandenburg Academy of Sciences and Humanities (BBAW) in Germany and at the Academy of Scientific Research and Technology (ASRT) in Egypt. It was established in 2013 as the first bilateral young academy worldwide. AGYA promotes research cooperation among outstanding early-career researchers from all disciplines who are affiliated with a research institution in Germany or any Arab country. The academy supports the innovative research projects and collaborative initiatives of its members in various fields of research as well as in science policy and science communication. At present, there are over 60 members engaged in collaborative projects and initiatives, with an equal representation of Arab and German scholars. These projects cover a diverse range of topics from Health & Society and Innovation to Common Heritage and Arab and German Education. AGYA is funded by the German Federal Ministry of Education and Research (BMBF) and various Arab cooperation partners. More information: www.agya.info

The Winter School is a project of AGYA members Dr. Philipp Blechinger (Reiner Lemoine Institut, Germany), Dr. Mohamed Vall (Université de Nouakchott, Mauritania) and Prof. Dr. Mahmoud Abdel-Hafiez (Goethe University Frankfurt, Germany)

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