MAX-PLANCK-INSTITUT
FÜR EISENFORSCHUNG GmbH

Press Release

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New international Max Planck research school for sustainable metallurgy approved

Application for doctoral position now open

The Max-Planck-Institut für Eisenforschung (MPIE) together with partner institutions have successfully applied for a new doctoral programme supported by the Max Planck Society. The "International Max Planck Research School on Sustainable Metallurgy" (IMPRS SusMet) started in January 2022 and offers 38 PhD student positions and is coordinated by the MPIE. The future junior scientists will work either at the MPIE itself or at one of the partner institutions: the Max-Planck-Institut für Kohlenforschung in Mülheim, the Ruhr Universität Bochum or the Universität Duisburg-Essen. The future SusMet doctoral students will focus on topics such as the direct reduction of iron, plasma synthesis and electrolysis paving the way for a climate neutral metallurgy.

International recruiting: Attracting the best minds to the Ruhr region

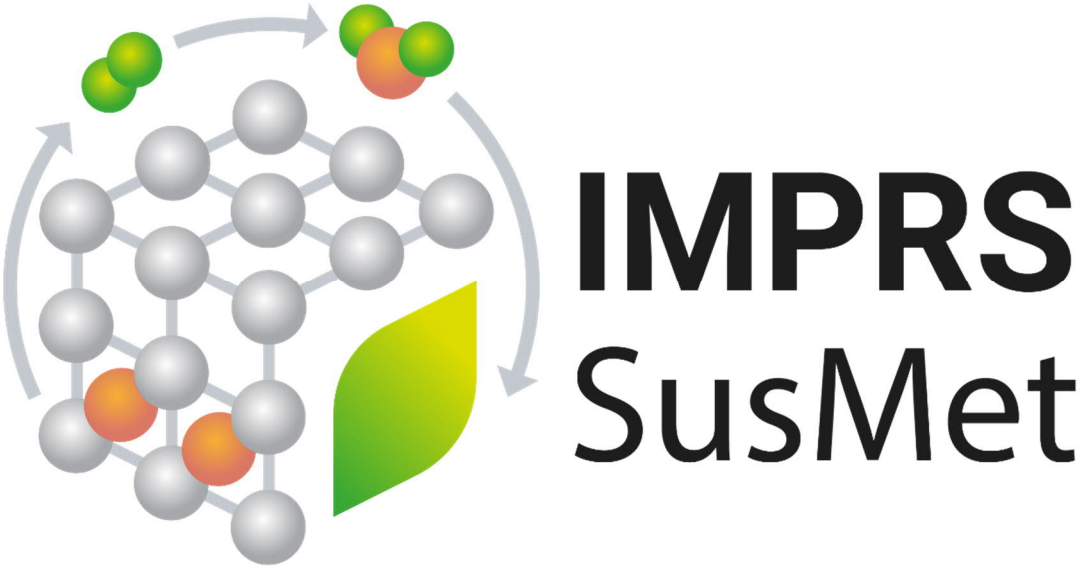
"Metal production is the largest single industrial emitter of greenhouse gases. With the new school we want to address this challenge and bring the internationally best young scientists to the Ruhr region to conduct research here. Our goal is to combine materials and engineering sciences, physics, chemistry and computer-aided simulation methods to look at the entire life cycle of metals: Starting with synthesis from ores, through the design of alloys with optimized properties, to efficient recycling processes for a circular economy," says Prof. Jörg Neugebauer, SusMet spokesperson and head of the Computational Materials Design department at the MPIE. Correlated experimental, simulation and multi-scale techniques are central to the scientific mission of the research school.

A combination of interdisciplinarity and the best infrastructure

The IMPRS SusMet offers a unique combination of excellent research conditions and an intensive, interdisciplinary teaching programme that offers not only specialized seminars but also a variety of soft skill trainings. The programme started in January 2022 and runs for an initial six years. Applications for the first seven available PhD positions can be submitted from January to mid-February. Upon successful completion, the doctoral degree will be awarded by one of the partner universities. In addition, graduates will receive a certificate from IMPRS SusMet.

Further information and how to apply:

https://www.mpie.de/2747306/doctoral-program



Logo of the new research school SusMet. The future doctoral researchers will focus on topics concerning sustainable metallurgy. © Max-Planck-Institut für Eisenforschung GmbH

The international team of the Max-Planck-Institut für Eisenforschung conducts advanced basic materials research for the fields of mobility, energy, infrastructure, medicine and digitalisation. The focus lies on nanostructured metallic materials as well as semiconductors, which are analysed down to their atomic and electronic scales. This enables the MPIE team to develop new, tailor-made structural and functional materials embracing their synthesis and processing, characterization and properties, as well as their response in engineering components exposed to real operating environments.

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