

Postdoctoral Position in Transmission Electron Microscopy

The newly founded Christian Doppler Laboratory for Nanoscale Phase Transformations (CDL n-phase) carries out in cooperation with the voestalpine Stahl GmbH and the Robert Bosch AG applied basic research on phase decomposition and formation effects in different material systems. Special focuses are the decomposition of the semiconductor GeSn and liquid metal embrittlement during processing of Zn-coated high strength steels. To strengthen our team, we are looking for a committed postdoctoral researcher.

Applicants must hold a Doctoral degree in physics, materials science or an equivalent field and should have a strong background in microstructure analysis with transmission electron microscopy. Candidates are ideally experienced with steel investigations and TEM *in-situ* heating experiments. Additional experience regarding specimen preparation with focused ion beam and electron diffraction methods (EBSD, PED, TKD, CBED) would be favourable.

Within the frame of the research program of the CDL n-phase, the candidate is expected to develop novel scientific ideas about the investigated materials, conduct and analyse experiments (focused on *in-situ* annealing and microstructural characterization with TEM), and disseminate the achievements at international conferences and in peer-reviewed publications. The responsibilities include also assistance with the supervision of Bachelor, Master and PhD Student projects as well as organisational tasks of the CDL n-phase.

Applicants are expected to work in an international environment. They should exhibit a high degree of motivation and independence, as well as excellent presentation and communication skills. English language is mandatory, German language skills are beneficial.

Applications are welcome until 30th of April 2019. Earliest starting date is 1st of June 2019. The position is limited until the End of 2020, and can be extended after a positive evaluation of the CDL until the End of 2023. The minimum salary in accordance with the collective agreement is € 3.803.90 gross per month.

Applications accompanied by the required documentation in English (Cover letter, CV, certificates, credentials) should be submitted via email (heiko.groiss@jku.at) only.

For further information contact

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