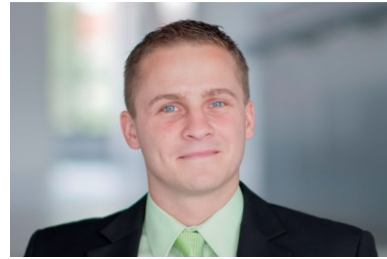


## Scientific Profile

**Dr.-Ing. Clemens Schneider**

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Dr. Schneider was born on 25 November, 1983 in Zittau.

After completing his training as a car mechanic in a dual education system at the Berufliches Schulzentrum für Technik in Zittau in 2004, he gained his university entrance qualification (Fachhochschulreife) at the same institution one year later.

In 2005 he started his course of studies at the Zittau/Görlitz University of Applied Sciences in the field of Energy and Environmental Engineering and graduated in 2009.

Since 2009, Mr Schneider has been working at the Institute of Process Technology, Process Automation and Measuring Technology of Zittau/Görlitz University of Applied Sciences in Zittau. In 2015 he finished his doctorate on experimental investigations on nucleate boiling in subcooled streams.

Within the recent years he was involved in multiple research projects. In 2009 he started with *Experimental Investigations of Boiling Processes Using Optical Methods and Parameter Determination for CFD-Calculations at Small-Scale Test Facilities* which formed the basis for his doctoral degree in 2015 (Dr.-Ing.). In 2013 he began to work in the research project *Increase of Energy Efficiency in Thermal Energy Plants*. Later, in 2015 he was committed in the start of operation of test facility Theresa. Currently, he is participating in the *Development of a Design Method for Dimensioning and Integration of Thermal Energy Storages into a Power Plant Process*.

Furthermore, from May 2017 to November 2020 Dr. Schneider was working as Project Manager at the Institute of Process Technology, Process Automation and Measuring Technology.

From March 2018 to November 2020 he was sub-project leader of the co creation lab für supply infrastructure within the transfer project saxony5 and responsible for the structure of the co creation Lab CESLIUZ of the university of applied sciences in Zittau – Germany.

Since December 2020 Dr. Schneider has been working at the Fraunhofer Research Institution for Energy Infrastructures and Geothermal Systems IEG where he is responsible for the structure of the location in Zittau and the competence center for thermodynamic transformers.

Dr. Schneider wrote various scientific papers on, for example on Experimental investigation of nucleate boiling on optically transparent heated surfaces with optical coherence tomography (OCT) and infrared thermography and in the field of transition to flexible energy supply of power plants.

Moreover, since 2012 Dr. Schneider is a member of the American Society of Mechanical Engineering (ASME) and since 2016 member of Association of German Engineers (VDI) and of the “Energy Saxony” Network-Cluster.

Dr. Schneider is experienced in image processing and simulation programs and in using software like LABVIEW, IMAGEJ, DYNSTAR, EBSILON, MATHSOFT MATHCAD and AUTODESK INVENTOR.