2 PhD positions

What is EDEM: EDEM is a Marie Skłodowska-Curie European Industrial Doctorate (EID) network; a joint research training and doctoral programme, funded by the EU and implemented by a partnership of high profile universities, research institutions, and non-academic organisations that are located in 7 EU countries and 4 overseas.

EDEM is the acronym of the project “Experimentally validated DNS and LES approaches for fuel injection, mixing and combustion of dual-fuel engines”. It starts in 2019/2020 and ends on 30th August 2023. The EDEM network is international (includes beneficiaries and partners from the EU, US, China, S.Korea and UAE), interdisciplinary (mechanical engineering, physics, chemistry, fuels and combustion), intersectoral (includes academic and non-academic institutions) and innovative (addresses topics not studied before).

We are looking for enthusiastic young researchers, who would like to enhance their career perspectives in both the academic and non-academic sectors through international, interdisciplinary and intersectoral mobility combined with the innovation-oriented mind-set.

The recruited ESR will spend 50% of their time to non-academic institutions according to the EID guidelines and will be enrolled in a PhD programme of the academic beneficiary partner institutions. In addition to their individual doctoral project, the recruited ESR will benefit from a dedicated training programme comprising an integrated curriculum of local and network wide training activities related to the development of scientific knowledge and the enhancement of transferable skills.
Two of the 15 positions are offered at FAU:

The working group is a leading research group in experimental mostly optical investigation of high pressure flows. The focus of the investigations in the project is on the investigation of injection, mixture formation, ignition and combustion processes, alternative fuels, and technical combustion in general as well as laser diagnostic procedures in engine combustion.

The working group maintains close contact with the automotive and supplier industries in joint research and development programs. As a preferred partner of national and international research institutes and industrial companies, our aim is to contribute to the scientifically sound and sustainable development with top-quality results.

**ESR 3:** Optical measurements for fuel mixing in CVC, Cooperation with Perkins Engines Co Ltd, UK and CPT Group GmbH, DE

**ESR 4:** Optical measurements for ignition and combustion in RCM, Cooperation with Perkins Engines Co Ltd, UK and Caterpillar, US

For more information see [www.EDEM-ITN.eu](http://www.EDEM-ITN.eu)

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