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The 400 year old Justus-Liebig-University (JLU) in Giessen hosts about 22000 students covering practically all aspects of university education.

In its research focus the natural sciences (medicine, biology, chemistry and physics) play an exceptional role working together in the program “life, nutrition and energy”.

In the field of nanoscience and nanotechnology devoted to the energy conversion, storage and efficiency the JLU covers a multiplicity of innovative ways to synthesize and functionalize new nanomaterials. This ranges from the self-organized growth of nanowires and nanorods, mesoporous materials with huge internal surfaces, epitaxial film growth of semiconducting and ion conducting heterostructures (MBE, PLD, CVD) and quantum dots from chemical solutions.

Using electron beam lithography artificially structuring enables to functionalize the nanosized materials towards magnetic, thermoelectric and sensor applications.

The JLU has put considerable financial support into the scientific equipment pool for the synthesis and characterization of modern nanostructures also for the benefit of the students in the newly established materials science B.Sc./M.Sc. course “Advanced materials” opened in 2006.