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The Philipps-Universität in Marburg is a German university with a tradition in research and education of nearly five centuries. It is also the oldest university in the world that was founded as a protestant institution and has now around 20.000 students. It offers a broad range of disciplines with the exception of the engineering sciences.

The work groups Wendorff and Greiner of the Department of Chemistry and Center of Material Science develop new functional materials on basis of nanoscaled polymer and composite fibers. The following production methods and products will be presented and discussed on the basis of some examples of application:

Electrospinning of long polymer, metal, ceramic and composite nanofibers.
Particular attention is drawn to following applications:

- medicine (tissue engineering, inhalation therapy, wound dressing)
- filtration (porosity, efficiency)
- biomimetic filtration of marine gels
- catalysis (homogeneous and heterogeneous)
- textiles (antibacterial)
- crop protection (pheromone release)
- fuel cell