

The Science Alliance Kaiserslautern e.V.



Members of the Science Alliance Kaiserslautern e.V. are the University of Kaiserslautern, the University of Applied Sciences Kaiserslautern, and eight research institutes, some of which are spin-offs of successful research completed at the University of Kaiserslautern. Their successful work in the past years has added to the growing reputation of Kaiserslautern as a distinguished location for study, research, and technology.

From Basic Research to Marketable Solutions

Scientific research and technological problem-solving increasingly require multidisciplinary approaches. In applied research there is a continually accelerated cycle of innovation. Thus, complex research projects progressively revolve around research bundles or so-called “clusters”, in which partners of varying competences from science and industry focus on specific aspects of a question or problem.

One of the basic tasks of the Science Alliance, therefore, is to utilize the potential of interdisciplinary research as it is already conducted in the two research Centers for Mathematical and Computational Modelling (CM²) and for Optics and Material Sciences (OPTIMAS). The member institutes aim to provide a multidisciplinary network that covers the entire innovation cycle from fundamental research to product and process development. The Fraunhofer Innovation Cluster Digital Engineering for Commercial Vehicles illustrates how researchers, producers and distributors work together to improve the software controlled development, planning and production processes of the utility vehicle industry.

In the different research departments students and doctoral candidates are invited to gain practical knowledge as full-fledged members of international teams.

Regional Networking as an Advantage in International Competition

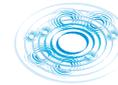
As a center of innovation Kaiserslautern profits from an excellent network of research facilities and local industries, in close cooperation with the City of Kaiserslautern and the State of Rhineland-Palatinate.

A perfect example is the cooperation of the Bau AG Kaiserslautern, a non-profit local building society, and the Fraunhofer Institute for Experimental Software Engineering in the pilot project Ambient Assisted Living. The geographical proximity of the partners allowed the concerted development and realization of a future concept for a self-determined life into advanced age as a sample solution for municipal builders in other communities.

Another example is the SmartFactory where the German Research Center for Artificial Intelligence, in cooperation with the University of Kaiserslautern and numerous companies in the region, develops and operates a demonstration platform for the application of automated line production techniques, which is unique in Europe. A close and longstanding collaboration with the Fraunhofer Institute for Technology and Business Mathematics enabled a medium-sized local foundry to become a nationwide leader in this field of technology.

Numerous spin-offs of the member institutes and the sustainable industrial location of the Kaiserslautern area are proof of the success of the application-oriented research conducted within the Science Alliance Kaiserslautern.

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