SES-Tec: A joint Spin-off of TU Graz and RCPE

SES-Tec (Scientific & Engineering Simulation – Technology) located in Graz is an example of successful cooperation between science and industry. A joint spin-off of TU Graz and the research center RCPE (Research Center Pharmaceutical Engineering GmbH), SES-Tec has expertise in both domains. It was founded in March 2013 and is the third spin-off of RCPE.

Traditional software solutions to simulations of technical problems are often complicated and expensive. SES-Tec provides a low-cost alternative. "It does not always have to be a ‘multipurpose’ software solution. Many projects have shown that a lot of technical problems can be simulated with sufficient accuracy using relatively simple means," state the Directors of SES-Tec Dalibor Jajcevic and Wolfgang Lang based on the experience that they have acquired over the years in a wide range of simulation projects, both academic and industrial.

Know-how in multi-physical simulations

The latest spin-off features cutting-edge know-how in multi-physical simulations and customized software solutions. SES-Tec provides innovative solutions to complex problems by integrating four simulation models: numerical methods of fluid dynamics, thermodynamics, structural mechanics and particle engineering.

SEC-Tec serves companies of all sizes, from big international corporations to regional small-business customers. By using various customer-specific simulation methods and optimizing the existing virtual development processes, SES-Tec offers shorter development times and optimized products to its customers. SEC-Tec can help to solve a wide range of problems, from the optimization of complex flow processes to the simulation of thermodynamic processes. By customizing solutions, SEC-Tec makes them available to small businesses.

No wonder young entrepreneurs remain in Styria. The infrastructure and excellent regional...
networking create ideal conditions for a successful start. Two strong partners, TU Graz and RCPE, will accompany entrepreneurs on their journey and help to identify further joint project opportunities.

Impact and effects

The cost of software solutions in the simulation area is often very high. SES-Tec offers a low-cost alternative by providing customized solutions. This way, small businesses can afford the technical equipment and remain competitive. The spin-off secures additional jobs in Styria and creates new expertise. The specific know-how remains in Styria and contributes to its international reputation of a research location.

Fig. 2: Young entrepreneurs with their former employers (left from right): Dr. Thomas Klein and Prof. Dr. Johannes Khinast (Directors of RCPE), Dr. Dalibor Jajcevic und Dr. Wolfgang Lang (Founder and Director of SES-Tec), Prof. Dr. Almbauer (Institute for Internal Combustion Engines and Thermodynamics at TU Graz) and Prof. Dr. Dr.h.c. Kainz (Rector of TU Graz), © RCPE

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Project partners

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