

## RCPE

### Research Center Pharmaceutical Engineering

Programme: COMET – Competence Centers for Excellent Technologies

Programme line: K1-Centres

## Breeding Ground for Entrepreneurship

The Technical University of Graz and the research center RCPE created a new spin-off, SES-Tec. It offers innovative solutions to complex problems in multi-physical simulations and fills the gap in the product and process optimization.



### 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**

**Contact and information**

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Organisation	Country
SES-Tec OG	Austria

**Further information on COMET – Competence Centers for Excellent Technologies:** [www.ffg.at/comet](http://www.ffg.at/comet)

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