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Siemens adds multiscale chemistry modeling to Xcelerator portfolio with acquisition of Culgi

- **Siemens to offer industry's first integrated multiscale solution for soft matter as part of Simcenter portfolio**
- **Addition of Culgi technology to enable performance-driven optimization of advanced materials in both discrete and process manufacturing industries**

Siemens announced today that it has signed an agreement to acquire Culgi, a computational chemistry software company with a focus on multiscale simulations in the process industries. Culgi will join Siemens Digital Industries Software, where its solutions will expand simulation capabilities of the [Xcelerator™](#) portfolio with quantum and molecular chemistry models that seamlessly couple with the continuum approach in [Simcenter™ STAR-CCM+™ software](#). This unique engineering workflow can deliver significant cost savings and accelerate innovation in the materials and process industries, increasing the potential for product and process transformations.

“Innovations in soft materials engineering begin at the quantum and molecular levels,” said Jan Leuridan, Senior Vice President, Simulation and Test Solutions, Siemens Digital Industries Software. “With Culgi technology as part of the Simcenter portfolio, process engineers will gain access to a comprehensive digital twin that combines micro-scale, meso-scale and macro-scale modeling. This tightly integrated workflow enables the design exploration of advanced materials in the context of product performance objectives, and we welcome the team to Siemens.”

The acquisition of Culgi builds on Siemens' [November 2019 acquisition of MultiMechanics](#), which added efficient prediction of solid material properties and behavior to the [Simcenter™ portfolio](#). Through the addition of Culgi's soft materials

simulation, Simcenter can now offer a unique integrated CAE solution that enables performance-driven optimization of advanced materials.

“We are excited to join Siemens and help create the future of simulation software,” said Johannes Fraaije, Professor at Leiden University and CEO of Culgi. “Virtual screening of novel materials in an early stage of development is a key enabler of digitalization in the chemical industries. With the integration of Culgi molecular simulation software and services within the Simcenter portfolio, engineers have an extra handle to design materials efficiently and effectively, with desired properties all along the value chain from inception, to process development, to logistics and market analysis.”

Founded in 1999 in Leiden, The Netherlands, Culgi provides expertise and develops software solutions for multiscale chemistry simulation, from quantum chemistry to molecular dynamics. Its products are used by companies to design and analyze new materials in domains such as specialty chemicals, batteries, pharmaceuticals, and cosmetics. The transaction is expected to close in calendar year 2020. Terms of the transaction were not disclosed.

Siemens Digital Industries Software is driving transformation to enable a digital enterprise where engineering, manufacturing and electronics design meet tomorrow. The [Xcelerator portfolio](#) helps companies of all sizes create and leverage digital twins that provide organizations with new insights, opportunities and levels of automation to drive innovation. For more information on Siemens Digital Industries Software products and services, visit www.sw.siemens.com or follow us on [LinkedIn](#), [Twitter](#), [Facebook](#) and [Instagram](#). Siemens Digital Industries Software – Where today meets tomorrow.

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Siemens Digital Industries (DI) is an innovation leader in automation and digitalization. Closely collaborating with partners and customers, DI drives the digital transformation in the process and discrete industries. With its Digital Enterprise portfolio, DI provides companies of all sizes with an end-to-end set of products, solutions and services to integrate and digitalize the entire value chain. Optimized for the specific needs of each industry, DI's unique portfolio supports customers to achieve greater productivity and flexibility. DI is constantly adding innovations to its portfolio

to integrate cutting-edge future technologies. Siemens Digital Industries has its global headquarters in Nuremberg, Germany, and has around 76,000 employees internationally.

Siemens AG (Berlin and Munich) is a global technology powerhouse that has stood for engineering excellence, innovation, quality, reliability and internationality for more than 170 years. Active around the world, the company focuses on intelligent infrastructure for buildings and distributed energy systems and on automation and digitalization in the process and manufacturing industries. Siemens brings together the digital and physical worlds to benefit customers and society. Through Mobility, a leading supplier of intelligent mobility solutions for rail and road transport, Siemens is helping to shape the world market for passenger and freight services. Via its majority stake in the publicly listed company Siemens Healthineers, Siemens is also a world-leading supplier of medical technology and digital health services. In addition, Siemens holds a minority stake in Siemens Energy, a global leader in the transmission and generation of electrical power that has been listed on the stock exchange since September 28, 2020. In fiscal 2019, which ended on September 30, 2019, the Siemens Group generated revenue of €58.5 billion and net income of €5.6 billion. As of September 30, 2019, the company had around 295,000 employees worldwide on the basis of continuing operations. Further information is available on the Internet at www.siemens.com.

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