

Center of Excellence for Computational Biomolecular Research



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## Powering Biomolecular Research through Advanced Modelling and Simulation

Supporting academia and industry with the usage of advanced techniques for high-end computing

Much of the current Life Sciences research relies on intensive biomolecular modelling and simulation. As a result of this, both academic and industrial researchers are facing significant challenges when it comes to applying **best practices** for **optimal resource usage** and **workflow productivity**, and to finding a **faster path to achieve results**.

of maturity in widely used codes and platforms, but taking full advantage of these requires training and guidance by experts. The services ecosystem required for that is presently inadequate, so a suitable infrastructure needs

## **User-driven research and development**

The BioExcel CoE actively engages with a number of **interest groups**, formed by members of **academic and industrial communities**, which

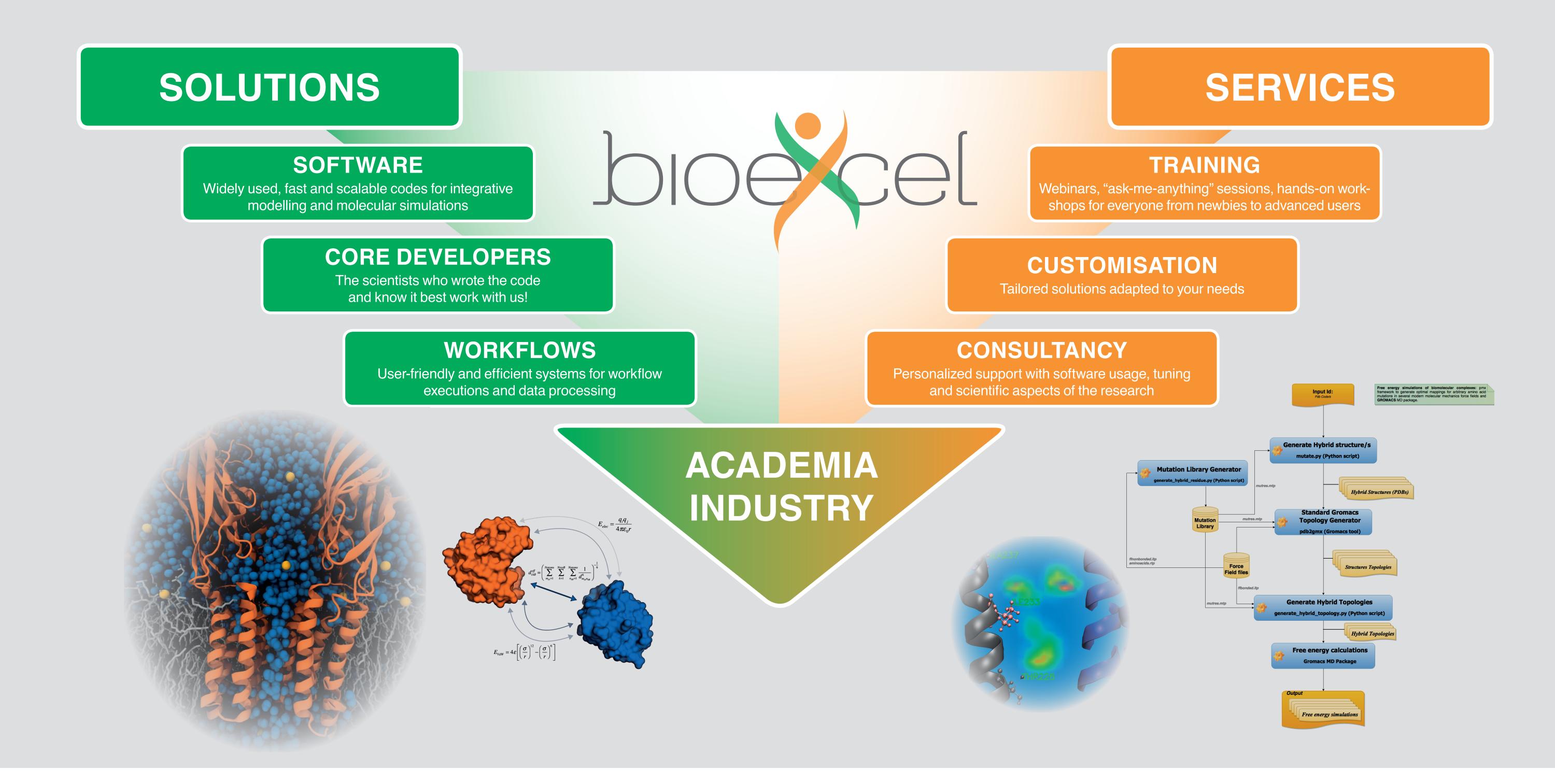
High-performance computing (**HPC**) and high-throughput computing (**HTC**) techniques have now reached a level

to be set up in a sustainable way.

The **BioExcel Center of Excellence (CoE)** was established to provide the necessary *solutions* for **long- term support** of the biomolecular research communities: fast and **scalable software**, user-friendly **automation workflows** and a support base of **expert core developers**. The main *services* offered by the center include handson **training**, tailored **customization** of code and personalized **consultancy** support.

lay the foundation of the long-term basis for **userdriven governance** of the center:

- academic and non-profit end users,
- industrial end users,
- software vendors and academic code providers,
- non-profit and commercial resource providers, and
- related international projects and initiatives.



Key Software



