


IMECC OÜ – Innovative Manufacturing Engineering Systems Competence Centre

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<p>General profile</p>	<p>IMECC OÜ was founded in 2009. The main objective of IMECC OÜ is to develop and promote novel manufacturing and to create preconditions for the development of efficient, intelligent and competitive production. In research and development, we follow the Industry 4.0 concept and the concept of the factory of the future.</p> <p>We partner with companies in the development of innovative and competitive solutions and their implementation, as well as in the field of offering expert estimations, consultations, trainings, etc.</p> <p>IMECC conducts close cooperation with educational institutions, companies and industry associations, thereby acting as a link between these bodies and educational institutions, offering topics which are important and respond to the industry's actual needs as topics for research and final theses.</p>
<p>Main research areas</p>	<ol style="list-style-type: none"> 1) Integrated systems and smart manufacturing technologies (sensors and ad hoc systems for manufacturing, monitoring and improvement of efficiency, feature based machining, development and implementation of production expert systems incl. visualizing technologies, etc.). 2) Intelligent reconfigurable manufacturing based on robot-cells (product family analysis for determining efficient manufacturing concept, development of optimal robot-technical systems, new manufacturing models, software and hardware development for robot-technical systems, etc.). 3) Designing optimisation of multifunctional engineering structures (innovative multifunctional structures for laminated glass and their use and optimisation, smart materials in energetics, ad hoc systems, etc.).
<p>Main partners</p>	<ul style="list-style-type: none"> • Norcar BSB Eesti • Pro-Step • ELI • Flexa Eesti • Dafine Engineering • Sumar Tools • Tallinn University of Technology • Association of Mechatronics (MECA) • etc.
<p>Additional information</p>	<p>In cooperation with MECA, IMECC has very a top-level research and production base, including a flexible manufacturing system. IMECC also cooperates with Tallinn University of Technology, which has several laboratories. IMECC's management belongs to development team of the European Manufacture</p>

	<p>programme. In addition to research work, IMECC is occupied with development of knowledge, vocational education and cluster development in mechatronics and manufacturing engineering. IMECC participates in several international projects (Horizon2020, Erasmus+, Interreg Central Baltic etc.).</p>
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