

Offer of training and consultation services

Creative Connections, established in 1992, focuses on developing models of humane physiology and educational simulators. For such systems, we are using the Modelica language since 2008, when we pioneered its usage in physiology. We have more than 10 years experience in training Modelica both in academia (Modeling and Simulation course for Czech Technical University, University of West Bohemia), industry (e.g. Ricardo, IC Energo, ZF, Hanon) and individual consultations. Since 2014 we are proud [educational partner of Dassault Systemes](#) for the Dymola, an industry-standard Modelica tool.

We offer a specialized Modelica training on *Modeling and Simulation in Dymola*. This training spans two days and covers basic as well as more advanced usage of Modelica language and Dassault Systèmes Dymola. This includes:

- Modelica universe – the language, tools and possibilities
- Principles of equation based modeling, acausality and connectors
- Dassault Systèmes Dymola - basic and advanced settings and controls, simulation and scripting
- Assembling the model from equations or pre-made libraries
- Preparing own simple library, advantages of object-oriented approach
- Model experimentation: parameter sweep, model analysis
- Explain and investigate model solvability, debugging
- Discrete events, hybrid models
- Expandable connectors, stream connectors for fluid computation
- FMI and model export

We are offering this two day training for the price of 18 000 CZK per participant (some discounts may apply). The training can be delivered anywhere in the CZ or in our learning facilities in Prague. Additionally, we offer custom consultations on more advanced and more detailed topics not (or not enough) covered in the training. These may include (but not limit to):

- debugging custom simulation model
- troubleshooting numerical problems of proprietary models
- Scripting and simulation automatization
- FMI and simulation control from external tools
- Development of tailored web simulators

The consultations are offered at the price of 3000 Kč per hour.

On behalf of Creative Connections, s.r.o.

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