

A stylized, orange-toned illustration of a city skyline. In the foreground, there are two large solar panels tilted towards the right. Behind them, several wind turbines are visible, with one being the most prominent. The background features a city skyline with various buildings of different heights. The sky is a solid orange color with a few stylized clouds and birds. The overall aesthetic is modern and clean, with a focus on renewable energy.

MODELON

Jonas Eborn

Automatic Control Department, Lund University
October 31, 2023

MODELON 101

We help customers with system simulation technology for a variety of industry verticals.



Aerospace



Automotive



Energy & Process

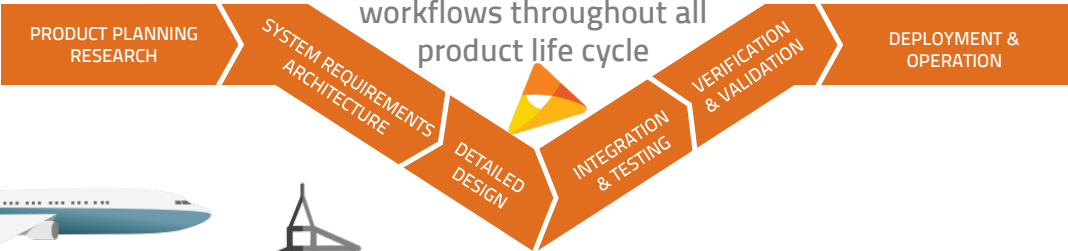


Industrial Equipment

We deliver **software** and **services** together. Our solutions are designed to seamlessly and rapidly help our customers navigate the design process, from idea through design and verification to operation.



Modelon Impact supports engineering workflows throughout all product life cycle



100+ employees across the globe

"The biggest resource are the people and we've had excellent support from the Modelon team."

Mert Gevecia
Principal Controls Engineer, Malta

MALTA

CASE STUDY

Adapting to the Future of Energy Technology With System Simulation

SIEMENS energy

Modelon

"

Mitsubishi Electric Research Laboratories has worked with Modelon for many years, both in using its libraries to model vapor compression cycles and HVAC equipment, and for providing consulting and support for Modelica tools. We have always enjoyed working with them because they provide friendly and prompt support, as well as keen insights that help us improve our model-based processes.

Christopher Laughman
Senior Principal Research Scientist
Multiphysical Systems

BLOG

Direct Air Capture:
Seizing Emissions to Achieve Climate Targets

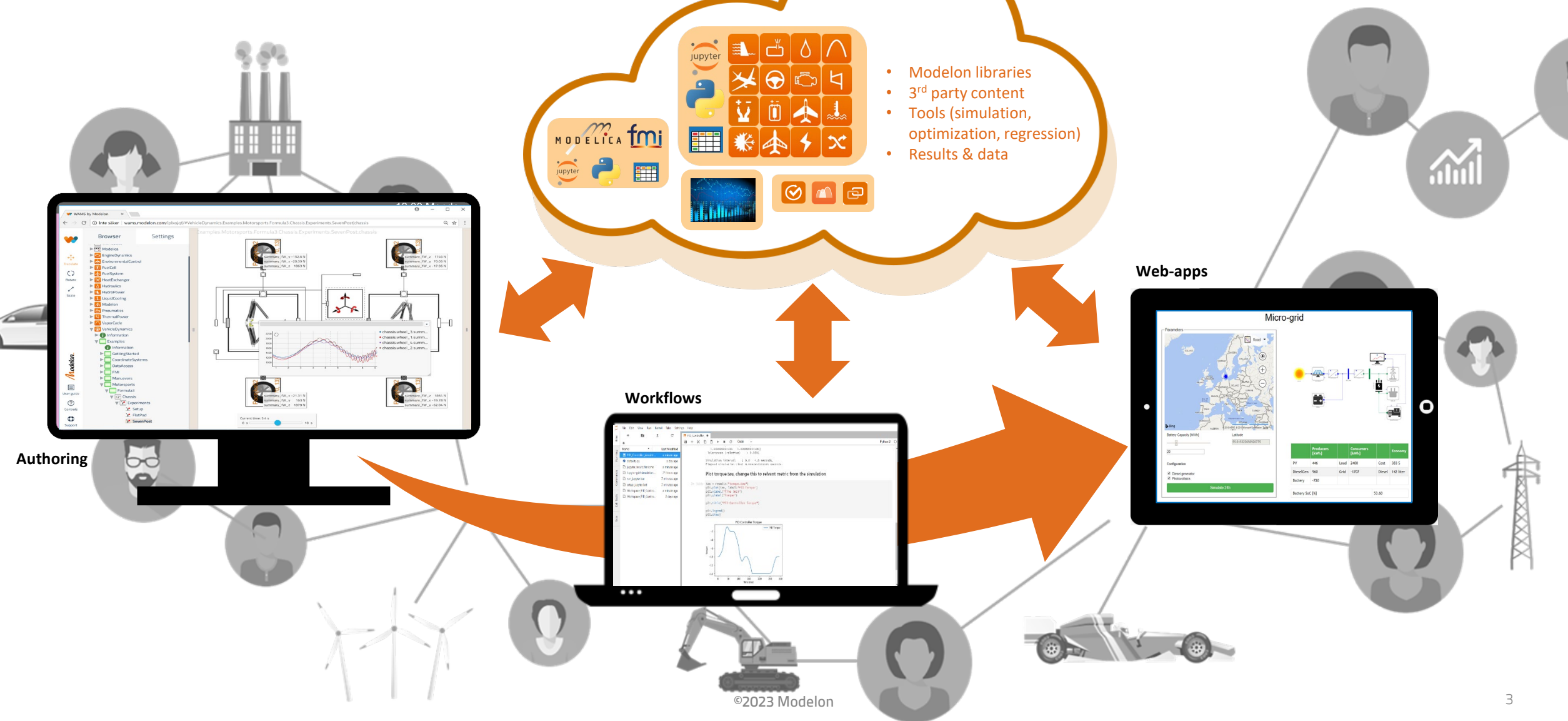
By Friedrich Gottelt,
Energy Industry Expert

Modelon Impact





Modelon Impact



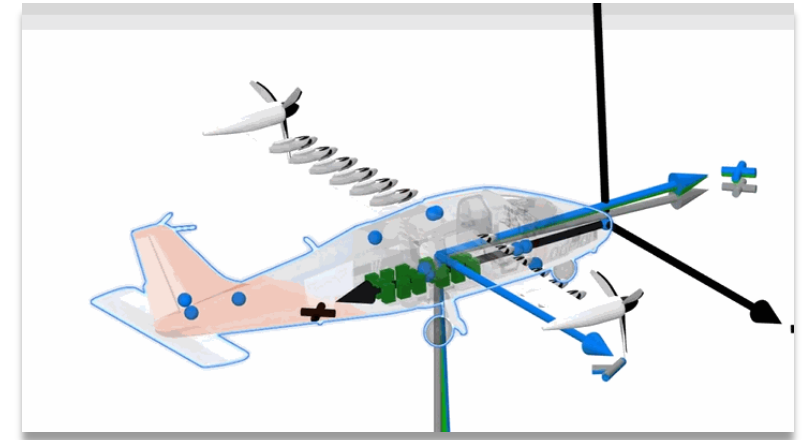
MASTER THESIS & JOB OPPORTUNITIES

- **Physical modelling in Industry applications**
 - Opportunities in Energy, HVAC and Thermal management
 - Residential heat pumps
 - Automotive heat pumps for electric vehicles
 - Thermal management for Battery pack of EV
 - Opportunities in our Aerospace team
 - Hydrogen powered aircraft
 - Hybrid electric propulsion
 - Thermal management and fuel for zero-emission aircraft
- **Software development for web platform and cloud computing**
 - Next generation cloud computing platform for modelling and simulation
 - 3D visualization of vehicle system simulation
 - Advanced visualization methods

Apply through: modelon.com/company/careers/

Student Opportunities - Master Theses

New thesis proposals available during ARKAD



Air_to_Air_HeatPump: 3 months simulation including weather files.