SimPowerSystems Jumpstart Service

SimPowerSystems™ Jumpstart Service is a two-day engagement that enables you to use SimPowerSystems to understand complex electrical power system behavior. It is intended for engineers working in control algorithm development or system-level design and integration. By the end of the engagement, you will be able to use SimPowerSystems with Simulink® to model and simulate the generation, transmission, distribution, and consumption of electrical power.

The consultants will provide sample models, code, and supporting electronic files.

Service Topics

Building AC and DC networks

- Using the SimPowerSystems library
- Connecting components

Using SimPowerSystems with Simulink

- Analyzing the network
- Using the PowerGUI
- Controlling the SimPowerSystems network using Simulink and Embedded MATLAB™ code

Understanding integration methods

- Applying continuous-time, discrete-time, and phasor simulation options

Working with nonlinear loads and power electronics

- Developing power electronic interfaces
- Modeling switching algorithms
- Applying harmonic analysis

Creating customized components

- Developing components in Simulink
- Linking Simulink components to SimPowerSystems
- Integrating multidomain physics

Service Requirements

Prerequisites: Background in electrical power systems required; basic knowledge of Simulink recommended

Required equipment and software: A laptop computer, with the appropriate software installed, for each attendee

Duration: Two days

Location: Onsite or at a MathWorks training facility

Maximum number of attendees: Five

Ordering Options

You can order SimPowerSystems Jumpstart Service when you purchase the software or at a later date. Contact your MathWorks sales representative for details.

Learn More

Consulting Services
www.mathworks.com/jumpstart

Visit
www.mathworks.com

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info@mathworks.com

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