

### Siemens

Mainstream Engineering Academic Program

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Realize innovation.

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#### **Siemens** A global leader in industry



# Siemens' understands and addresses the challenges faced by engineering companies today...and tomorrow.

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#### **Siemens Academic Program**

#### **Objective**

Inspire young people to engage with education in the areas of Science,

Technology, Engineering and Mathematics (STEM) and explore the exciting and rewarding opportunities found within the technical and engineering professions.



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#### **Siemens Academic Program**

#### Objective

Inspire young people to engage with education in the areas of Science, Technology, Engineering and Mathematics (STEM) and explore the exciting and rewarding opportunities found within the technical and engineering professions.

#### **Commitment to Education**



- Leverage Siemens' position as a global leader in engineering
- Provide students and teachers with access to industry leading technology
- Support the teaching and learning of the STEM subjects
- Improve technological literacy
- Workforce preparation





#### Joined-up thinking: industry and academia

#### Meeting the needs of industry

- Addressing the skills shortage
- STEM workforce: vital for innovation and growth



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#### The talent pipe-line

- Strategically important to all companies
- Supply of talented and qualified graduates
  - All levels of education





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#### **Siemens Academic Programme**

- Building links between industry and academia
  - Working in partnership to build the network
- Strategic, long-term investment
- Industry-leading technology and industry-relevant projects







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#### Siemens Solid Edge & Femap

Complete Design and Manufacturing Solution for Education



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#### **Siemens Academic Program**

#### Industry leading software

- Solid Edge viewers free (iOS, Android, & Windows devices)
- Solid Edge Student Edition free (perpetual)
- Solid Edge High School Edition free site license (perpetual)
- Solid Edge University Edition site license
- Solid Edge CAM Express site license
- Emap (academic) site license

	Secondary Education Middle-School & High-School	College & University
Primary		
Education		Vocational Schools Employment



#### **Siemens Academic Program**

Industry leading software

Solid Edge, Femap, Cam Express

Industry recognized certification







#### Academic resources and projects

#### Solid Edge Online Learning Resource

- Step-by-step tutorials
- Video tutorials
- Solid Edge training library
- Download printable course books



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#### **Curriculum and tutorials**

Developed by teachers for teachers



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#### **Curriculum and tutorials**

Developed by teachers for teachers .

#### **Project-based learning**

The Greenpower Electric Car Challenge •







#### **Summary: Siemens Academic Program**

#### Aims and objectives

- Support the teaching and learning of the STEM subjects
- Build the talent pipe-line

#### Siemens strategic and long-term commitment

- Building a network engagement
- Industry and academia (joined-up thinking)

#### Siemens industry leading technology

• Solid Edge, Femap, CAM Express

#### Comprehensive range of resources and projects

- Online Learning resource
- Curriculum & tutorials: developed by teachers for teachers
- Project-based learning: Greenpower Challenge









## Siemens **prepares** students for the engineering challenges of the future.

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Siemens PLM Software

#### Siemens: Industry leading technology

#### Synchronous Technology

- Freedom from history
- Faster learning curve
- Faster design/idea capture
- Make parametric changes to imported data

#### Siemens component technology

- Parasolid
- D-Cubed

#### Open

- File open market leading 'openness'
- Import/Export confidence and flexibility working with various file types

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#### **History-based vs Direct modelling**



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#### **History-based vs Direct modelling**



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#### For more information

#### Web links

- Solid Edge Academic Program <u>Educator</u> page <u>http://www.plm.automation.siemens.com/en\_us/academic/resources/solid-edge/educators/index.shtml</u>
- Solid Edge Academic Program <u>Student</u> page
  <u>http://www.plm.automation.siemens.com/en\_us/academic/resources/solid-edge/index.shtml</u>
- Siemens PLM Greenpower page <u>www.siemens.com/plm/academic/greenpower</u>

#### Solid Edge community

#### For more information please contact one or more of the following

- Americas <u>solidedgeacademic-am.plm@siemens.com</u>
- Asia Pacific <u>solidedgeacademic-ap.plm@siemens.com</u>
- Europe, Middle East, & Africa <u>solidedgeacademic-emea.plm@siemens.com</u>

#### Video showing a few user examples https://www.youtube.com/watch?v=kU3sxi1XT-E&list=PL1m1vu8\_quoB2Emb4IG7xc2Tp0VnJTgGD

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