Siemens Empower+ Cooperates with Education (SCE)

Program Offering for Higher Education Partners

With Expanded opportunities for customizable programming and workforce development

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What is your vision?

Siemens Empower+ "Siemens Cooperates with Education (SCE)

- is an academic and workforce development outreach program designed for new and existing customers.

At Siemens, we share our resources and expertise on projects impacting

- sustainability,
- STEM / STEAM / HSTEM,
- workforce development,
- energy efficiency,
- In-reach and Outreach,
- and Community Relations.

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Siemens four strategic priorities are reflected …

Customer impact

**Technology
with purpose**

Empowered people

Growth mindset

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Industry's challenges are multiplying –
with new ones being added all the time

Cost pressure and efficiency

Faster innovation cycles

Quality

Flexibility

+

Sustainability

Lack of talent

→

Adaptability at the speed of software
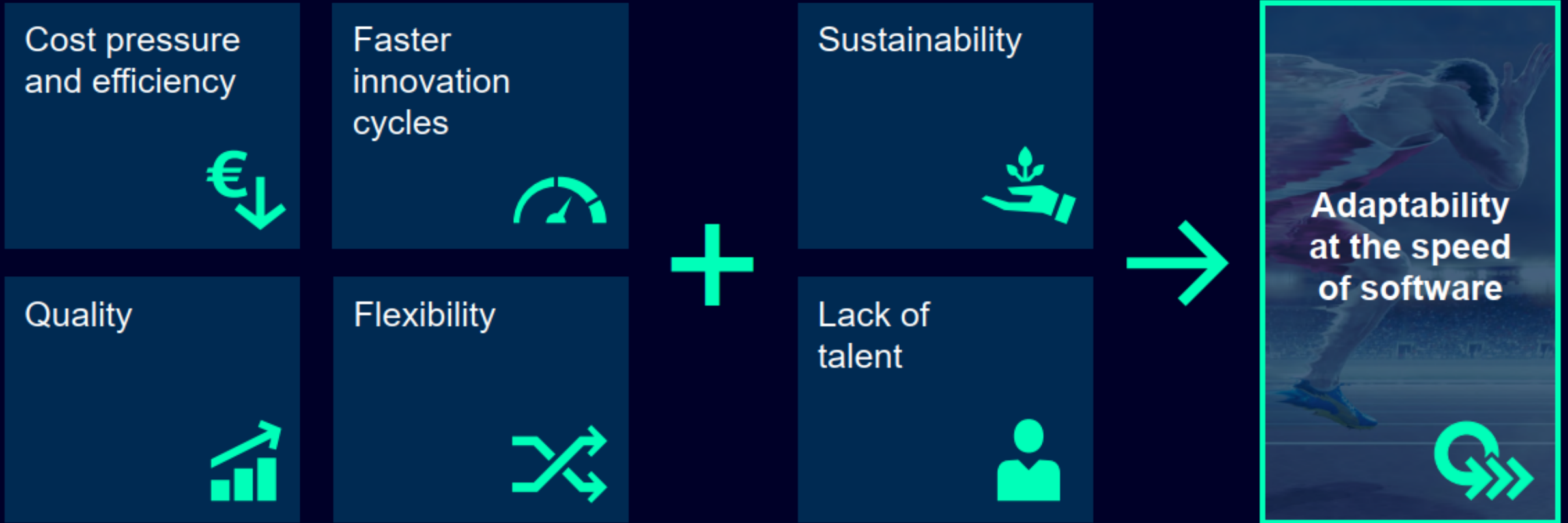
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Siemens is well positioned to address the challenges of the Globe

Industrial Business

Digital Industries

Smart Infrastructure

Mobility

Siemens Healthineers[1]

Siemens Financial Services

Siemens Advanta

Portfolio Companies

Country USA

Siemens Government Technologies
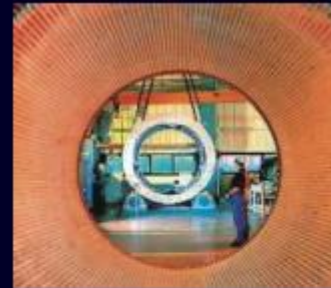
[1] Publicly listed subsidiary of Siemens; Siemens' share in Siemens Healthineers: 75%

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Workforce development Eco-System

Voice of Industry Needs & Wants

OEMs

SMBs

- STEM (K-12) ecosystem Programs
- Academic Flow - Organic Accredited Degree's Certificates and Badging
- New Hires, (Learning Account SOP's and use)
- Re-Training of existing employees

	Intermediate	Short to mid term	Long term	Future planning
STEM (K-12 + Ecosystem)			✓	✓
Organic Academic		✓	✓	✓
Degreed			✓	✓
Cert's and Badging	✓	✓	✓	
New Hires	✓	✓	✓	✓
Re-Upskill Retaining	✓	✓	✓	✓

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Siemens SI (*Smart Infrastructures*)

Smart Infrastructure delivers sustainable, connected, resilient and energy efficient technology to strengthen America's infrastructure

About Us

12,000+ employees across nearly **100** locations

30,000+ customers in all 50 states plus Puerto Rico

€3.4 billion in energy cost savings for customers globally since 2000.

16 manufacturing facilities in the US, Canada and Mexico

Building Products

Electrical Products

As Smart Infrastructure, we can deliver full solutions to our customer base

- Building automation
- Fire safety and security
- Low- and medium-voltage power distribution products, solutions, and services
- Protection automation and control
- Energy storage
- Electric-vehicle charging
- Control products
- Microgrid controllers
- Renewable integration and renewable solutions

Analytics

Renewables

Building automation

EV charging

Comfy

Sm@rtgear

Energy Storage
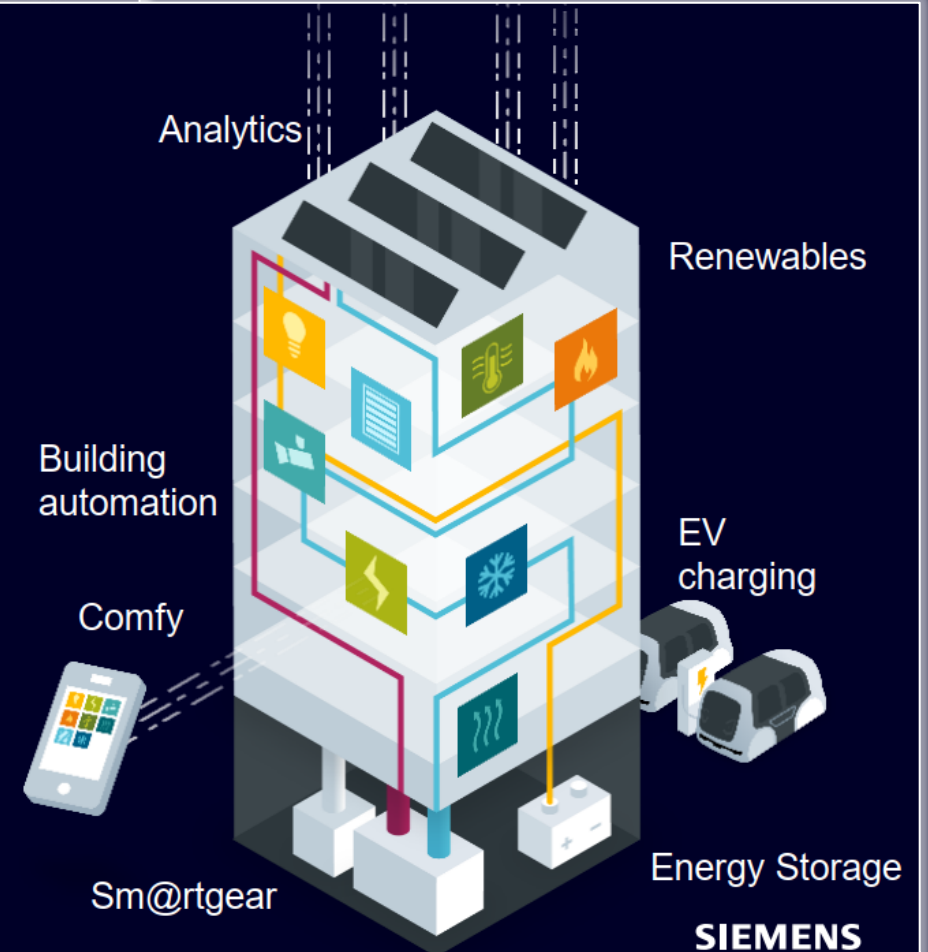
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Empower Plus supporting the University of Alaska

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Siemens DI *(Digital Industries)*

Siemens Digital Industries is driving the automation adoption and digital transformation of US Industry

About Us

- **1,400+** employees across 14 locations
- **50,000+ customers** across various Industries
- **100K+** Installed SIMATIC PLC base in the US
- **Multiple Fortune 500 companies** (e.g., Ford, P&G, Boeing, Cargill, Dow Chemical, Goodyear, Pfizer Amazon) rely on Siemens for their Automation needs

Our Business Units

| Factory Automation | Process Automation | Motion Control | Customer Services |

Siemens Digital Industries Software is driving the digital transformation

About DI SW

- **#1 Industrial Software market share**
- **€3.4bn revenue globally**
- **22,000 employees across 36 countries in 250 sites**
- **~220,000 developers building applications on DI SW technology**

Xcelerator
design realize optimize

- Comprehensive Digital Twin
- Personalized Adaptable/ Modern
- Flexible Open Ecosystem

Success Story – Secondary School to Under-Grad Pathway

Thanks to
- Grissom High School – Madison Alabama
- United States Marine Corp
- Siemens Digital Industries Software - Mainstream Engineering Segment

Siemens "T"
(Technologies)

Siemens Technology U.S. leverages a large research and innovation ecosystem

Universities

Pacific Northwest NATIONAL LABORATORY
Lawrence Livermore National Laboratory
Argonne NATIONAL LABORATORY
Fermilab
NREL Transforming ENERGY
Los Alamos NATIONAL LABORATORY
OAK RIDGE National Laboratory
INL Idaho National Laboratory

BOEING
ROLLS ROYCE
Raytheon
LOCKHEED

Siemens' commitment to sustainability
Our DEGREE framework sets clear priorities

Decarbonization
Support the 1.5°C target in the fight against global warming

Employability
Enable our people to stay resilient and relevant in a constantly changing environment

Ethics
Foster a culture of trust, adhere to ethical standards and handle data with care

Equity
Foster diversity, inclusion, and community development to create a sense of belonging

Governance
Apply state-of-the-art systems for effective and responsible business conduct

Resource efficiency
Achieve circularity and dematerialization

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Siemens Empower+ Cooperates with Education (SCE) –
Higher Education Partnership Programs - Supporting your Core Mission!

EMPOWER Learning

- Packaged STEM programs
- Resources for educators
- Hands-on learning
- Career exploration

EMPOWER Custom

- Empower (seed) grants
- Project expertise / consultation
- Student engagement
- Community outreach
- Living Labs

EMPOWER Community

- Storytelling via 360° communications
- Impact videos
- Equity, Diversity & Inclusion
- Community outreach
- Industry engagement

EMPOWER Workforce

- **Academic Programming**
- Digital Industries Software (DiSW)
- Siemens Mechatronics Systems Certification Program (SMSCP, Sitrain)
- Siemens Cooperates with Education (SCE)
- BAS Technician Certification
- Microgrid Training Program
- e-Mobility Training Program
- SISchool
- T UR (formerly CT; intermittent)

- **Talent Acquisition**
- Internships and recruiting
- Development and hiring programs
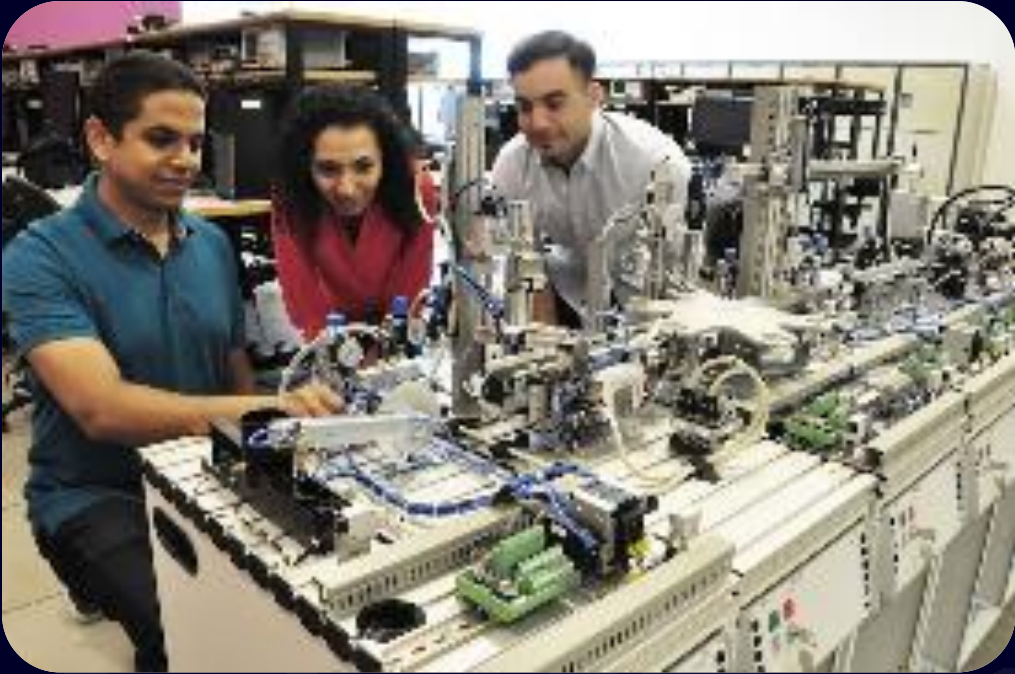
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CHiPS and Science Act -
Siemens Comprehensive Industry Partnership Program.

- Provide End 2 End Technology inclusive of Product and Process solutions

- Expand Domain Skills via Outreach and Training solutions (Inclusive of Software tools, thought leadership and Recruitment Alignment) based on Industry Needs and Strategies

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Siemens Response:

An end-to-end turnkey education program that works for both universities and businesses that span the End-to-End Semiconductor "Lifecycle" from Design to Manufacturing to Delivery focused on :

- Digital Transformation and Simulation
- Chip Development
- Infrastructure
- Automation

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Integrated Lifecycle Management

Electronic Systems Design

Simulation Driven Design

NPI and Supplier Collaboration

Smart Manufacturing

Enabling the Semiconductor Digital Thread "Ecosystem"

Design For "x" (Quality, Assy, Mfg..)

Chip Development

Infrastructure

Automation

Workforce Skills Enablement and Development

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VISION

To be a valued partner and help enable success in your communities.

MISSION

To help you achieve more while strengthening your communities through these programs.

You have ambitions, we help make them happen with EMPOWER+!

We help bring life to programs that lack support or expertise,

creating a better future for you and your community.

www.usa.siemens.com/empower

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Mr. Deren has spent the past 41 years primarily focused on helping companies and customer in the mature and emerging markets find ways to improve their product and/or process development methods. His work has resulted in finding ways to improve their efficiency, reduce development costs or in helping them to develop a competitive advantage. As a process SME, he helps them focus on improving quality, reducing cycle time or purely improving efficiency and execution through the use of enabling technology, process optimization and skill enhancement. He represents the voice of the customer and coach's and counsel's improvement into solution development.

Gerry leads a team of Academic Enablement professionals across the Americas for Siemens Digital Industries Software (DISW) focused on helping academia become "relevant" for manufacturers as they face the challenges of sustainment within their innovation, validation and manufacturing lifecycles.

Mr. Deren represents Siemens on many Advisory Boards focused on establishing / building the, OEM to SMB to Academia (K-12 through Higher Ed) ecosystem consisting of engineering and digital manufacturing program domains including curriculum adaptation, research and joint projects. He is a well-known speaker on Industry 4.0, and other model-based topics related to business process improvement, global supply chain collaboration and product lifecycle management.

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Thank you.

Gerry Deren

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