

AUTODESK

TIME TO TALENT

CHALLENGE

Rapid technological transformations

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Emphasized focus on theory in engr. education

Widening gap of "time to talent"

CHALLENGES FOR EDUCATORS

(L) TIME

Difficult to stay abreast of constant shifts and development.

†† DIFFICULT ADJUSTMENT

Faculty struggle with adapting to new concepts.

Ⅲ GAPS IN CURRICULA

Lack of hands-on exp. on sustainability, advanced mfg. & interdisciplinary skills.

□ LIMITED RESOURCES

Equipment and funding are scarce.

▼ TOP SKILLS ACROSS 3 ROLES

MECHANICAL ENGINEER	Design for Manufacturing	Generative Design	AI/ML
MANUFACTURING ENGINEER			Integrated CAD/CAM Simulation
CNC MACHINIST	CNC Machining	Robotics	Additive Mfg.

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▼ EDUCATORS' DESIRED RESOURCES

Real-world projects
Step-by-step guides and practice exercises
Knowledge bank and challenge exercises
Instructor guides
Videos
Assessments

SOLUTION

Autodesk & ASME have solved this challenge by providing customized, rich, modular Industry 4.0/advanced manufacturing learning content for both students and faculty.

- Self-Assessment
- Faculty Instructor Guides
- Practical, Bite-Sized Projects
- Instruction
- Summative Assessments

KEY TAKEAWAYS

- Leverage university industry boards & keep current on workforce developments.
- ABET's criteria provides ample scope for personalized learning.
- Incorporating real-world projects in classroom to inspire students about engineering.
- ▶ 79% percent of design and manufacturing respondents will increase investment in AI and emerging technology over the next three years.* Accelerating Industry 4.0 education is critical to success.

* Autodesk 2024 State of Design & Make: Spotlight on AI report

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