



# Stratasys Additive Manufacturing Certification



CERTIFICATION  
PROGRAM

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**stratasys**



Improve student career-readiness by offering professional experience in additive manufacturing above and beyond limited experience with consumer 3D printers.

# Filling the Skills Gap

## STRATASYS ADDITIVE MANUFACTURING CERTIFICATION PROGRAM

### Talent Shortages

As the use of additive manufacturing evolves and increases, studies show there is a widening gap between these advanced solutions and the number of skilled workers who can drive them. Over the next decade, experts predict this shortage of skilled workers will lead to millions of unfilled jobs in the design, engineering and manufacturing industries. The talent shortages are due to an aging workforce, inconsistent skill development of new and younger staff, applicants short of experience and missing technical competencies.

Globally, manufacturers look to community colleges, vocational and technical schools, and universities to attract, retain and prepare talented students to work in advanced technology sectors. Industry leaders need skilled workers who know how the tools of the trade work, and have a clear understanding which tool is right for the job. Currently, not enough students are graduating with the right knowledge or the ability to adapt as the pace of innovation accelerates. Students entering the workforce may know what 3D printing is, but the majority have very little practical experience. Their skills are limited, and their experience is inconsistent with what industry demands.

### Shifting Your Approach

The next generation of designers, engineers and technicians are still in school. Overcoming the additive manufacturing skills gap in the long term hinges on nurturing these bright young minds with access to real-world knowledge, practical skill development and access to industry-grade technology.

Providing opportunities for hands-on learning with 3D printers is advantageous for students, but there's more that can be done. Students can be certified in professional, high-level additive manufacturing technologies, proving their proficiencies in AM applications across industries.

With an additive manufacturing certification program, students develop the skills required of a tech-centric workforce in positions across automotive, aerospace, design, consumer goods and healthcare. Institutions offering AM certification are producing industry-ready students for positions in dire need of skilled workers. AM certification on professional 3D printers prepares the workforce of tomorrow above and beyond any experience on consumer-brand printers.

## Stratasys Additive Manufacturing Certification

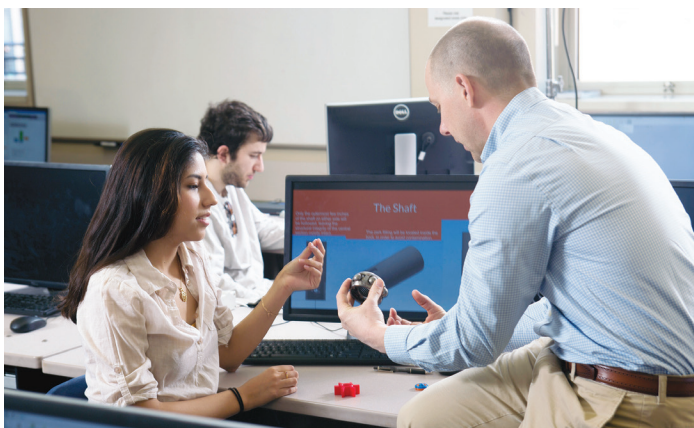
Stratasys is a global leader in applied additive technology solutions trusted by industry leaders in manufacturing, aerospace, automotive, design and prototyping, and healthcare. It is our strategic priority to offer a certification program that meets industry needs by certifying students' qualifications, increasing employability and limiting the risk many employers feel when filling open positions.

Stratasys is leveraging 30 years of additive knowledge to create this professional proficiency credential. Students earn the professional proficiency credential by studying a specified set of learning objectives and passing the certification exam at a verified school or institution.

Educational Institutions enrolled in the certification program have access to 40 contact hours of exam prep content organized into modules accessible directly through Stratasys. Resources for participating institutions include hands-on projects and labs, GrabCAD and Insight CAM software, module quizzes, instructor notes, presentations and more. Students in the program also have access to resources, such as technical resources and guides, software, prep notes and more.

CERTIFICATION		
Body of Knowledge	<ul style="list-style-type: none"> <li>• Overview of Additive Manufacturing</li> <li>• Additive Manufacturing Technologies</li> <li>• Industries and Applications Using Stratasys</li> <li>• Stratasys Materials and Material Properties</li> </ul>	<ul style="list-style-type: none"> <li>• Stratasys Technology and Key Specifications</li> <li>• Design Considerations – From CAD to CAM</li> <li>• Fabrication Considerations</li> <li>• Post Processing</li> </ul>
Program Certifies	<ul style="list-style-type: none"> <li>• Ability to define and understand benefits of 3D printing</li> <li>• Understanding of ASTM key additive technologies</li> <li>• Understanding of 3D printing industries and applications</li> </ul>	<ul style="list-style-type: none"> <li>• Knowledge of Stratasys technology</li> <li>• Material testing standards and Stratasys materials</li> <li>• Additive design and fabrication considerations</li> <li>• Basic post-processing for FDM and PolyJet</li> </ul>

CERTIFICATION PARTNERS	
Institution Requirements	<ul style="list-style-type: none"> <li>• FDM: Stratasys F123™ Series or Fortus 450mc™</li> <li>• PolyJet: Objet30 Pro™ or better</li> <li>• Instructor must:               <ul style="list-style-type: none"> <li>• Be knowledgeable and engaged in 3D printing technology</li> <li>• Attend in-person 3-day training at Stratasys</li> <li>• Pass certification exam</li> </ul> </li> </ul>



The Stratasys Additive Manufacturing Certification Program gives students the practical experience with technology professional engineers and designers use.

“Certification creates a way to quickly articulate, or communicate a level of knowledge to others regardless of their own personal knowledge or expertise in that area.”

— Vince Anewenter, Milwaukee School of Engineering

# Stratasys Additive Manufacturing Certification



“Growing a talented workforce helps ensure manufacturing will continue to be the bedrock of our economy and competitiveness.”

— Jay Timmons, President and CEO, The National Association of Manufacturers

Certify student proficiency in additive manufacturing basics such as understanding materials, designing for additive, fabrication considerations and post processes.

For more information on how to become an approved certification institution contact [edu.curriculum@stratasys.com](mailto:edu.curriculum@stratasys.com)

STRATASYS.COM

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