

what is 3D PRINTING?

3D PRINTING BUILDS PARTS LAYER BY LAYER FROM DIGITAL FILES

it's additive + it's digital



ADDITIVE

High-quality parts are built by adding material, not subtracting it as with machining, cutting or other common methods.



LESS WASTE



LOWER COST



DESIGN FREEDOM



DIGITAL

3D model data from CAD design tools or 3D scanners can be shared or protected like any digital file.



GLOBAL COLLABORATION

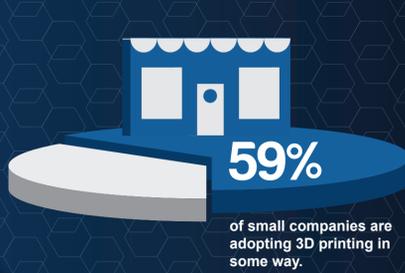


VIRTUAL INVENTORY



IT'S EASY

which PROS USE IT?



Source: PwC and Zpryme survey and analysis. "2014 Disruptive Manufacturing Innovations Survey"



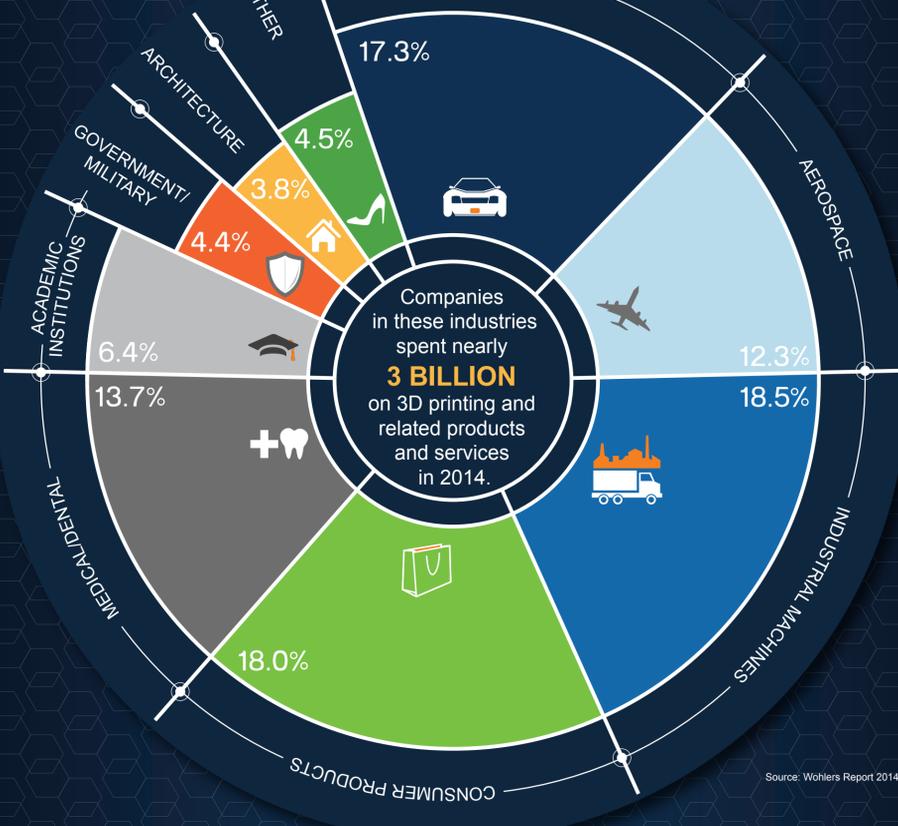
"The number of job ads requiring workers with 3D printing skills increased **1,834%** in 4 years and **103%** when comparing August 2014 to August 2013."

Source: Wanted Analytics

TOP 3D PRINTING JOBS:

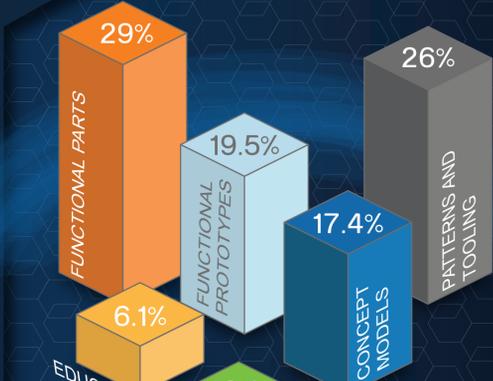
- Industrial Engineers
- Mechanical Engineers
- Software Developers, Applications
- Commercial and Industrial Designers
- Marketing Managers

Source: Wanted Analytics



how the PROS USE IT

"3D printing has the potential to revolutionize the way we make almost **everything**."
Barack Obama



why the PROS USE IT

TO SPEED TO MARKET

DUCATI

Design Time **80% faster**

Ducati reduced development time by 20 months for its Desmosedici race bike engine. <http://goo.gl/f0nU62>

TO PROTECT PROJECT BUDGETS

UT DALLAS

Prototyping Cost **75% lower**

University of Texas, Dallas reduced the cost of prototyping athlete concussion sensors. <http://goo.gl/FjuAkX>

TO MANUFACTURE SAVINGS

GENESIS

Tooling Costs **83% lower**

Genesis created robotic grippers in much less time and at a fraction of the usual cost. <http://bcove.me/ogzbtj10>

TO CUSTOMIZE AT ANY VOLUME

NORMAL

Normal forged a new business model by reducing the cost of customizing ear buds. <http://bcove.me/8ds7vvcl>

SOURCES

- <http://wohlersassociates.com/2014report.htm>
- <https://www.wantedanalytics.com/analysis/posts/demand-for-3d-printing-skills-soars>
- http://www.stratasy.com/~media/Main/Secure/Application_Customer_Stories-ACS/SSYS-ACS-ChampionMtrSport-09-14-Web.pdf
- <http://www.stratasy.com/resources/case-studies/consumer-goods/normal>
- <http://www.stratasy.com/resources/case-studies/education/ut-dallas>
- http://www.pwc.com/us/en/industrial-products/assets/3d-printing-next_manufacturing-chart-pack-pwc.pdf