Women of R&D Tax Savers Comment on the 3D Printing Industry

By Charles Goulding | Feb 6, 2018 | 3D Printing, Business |

Keeping current on 3D printing technology developments is part of the core DNA at R&D Tax Savers. As one of the nation's leading providers of R&D Tax Credit services, we need to be thoroughly informed about critical technologies impacting a large segment of our client base. We have clients utilizing 3D printers for the development of new and improved products in a variety of industries including plastics, toys, aerospace, architecture, furniture design, glass, jewelry, dental, lighting, food, and medical devices.

The women of R&D Tax Savers have the following commentary regarding additive manufacturing and the recent developments:

Andrea Albanese, Manager, R&D Tax Savers, *Widespread Benefits of 3D Printing*

Since starting at R&D Tax Savers eight years ago, I have seen a tremendous growth in 3D printing usage across many of our client industries. What I enjoy most is the integral role 3D printing plays for companies of all sizes and types, whether it is for prototyping and mock-up purposes or for production of parts. I have worked with clients in the lighting, furniture, aerospace, kitchen products, and architecture industries that leverage the power of 3D printing. 3D printing enables many of our clients to significantly speed up their design process, bringing new products to market in half the time. Additive manufacturing has also enabled our clients to create highly complex parts for production, such as clips and hinges for kinetic furniture. I look forward to the continued benefits of additive manufacturing as it supports businesses of all kinds.

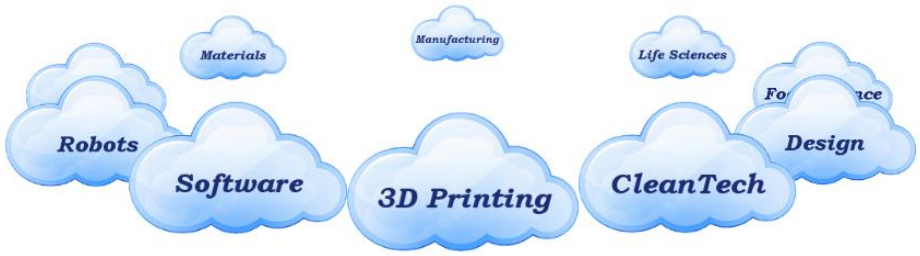
Andressa Bonafe, Tax Analyst, R&D Tax Savers – *Living in Brazil*

As an analyst at R&D Tax Savers, I started researching 3D printing back in 2013. Since then, I have moved to Brazil, where I can see how widespread the interest for this technology is, both geographically and in its multitude of applications. In 2014, I wrote a piece on 3D bioprinting and how R&D tax credits could help support innovative efforts in this area. I have been following 3D bioprinting developments ever since and I am constantly amazed by their potentially life-saving implications. Recently, I was especially excited to read about 3D printed live tissues in the form of cardiac patches that can help prevent heart failure. The potential impact on the lives of millions of people who suffer from this condition is a good illustration of the game-changing

outcomes that will ensue from the ability to engineer usable tissues not only for implants but also for drug development and testing applications.

Lauren Chin, Tax Analyst, R&D Tax Savers, *Architecture and 3D Printing*

It has been interesting to see the growth of 3D printing and how this application has become utilized within a wide range of industries. In particular, various architecture & engineering and interior design companies have incorporated this application during their development process to analyze potential concepts and designs. One of the articles I have written about while working at R&D Tax Savers discusses the concept of interior design and 3D printed furniture pieces. While conducting research for this article, I learned how 3D printing allows companies and clients to easily create and customize designs. It was great to see how the utilization of 3D printers has made designing new concepts easier and provides a quicker method of developing products.



Tricia Genova, Tax Analyst, R&D Tax Savers, *3D Printing Impacts on Business Development*

As a Tax Analyst with R&D Tax Savers, an industry with evident evolution is 3D printing. From my recent research, it is interesting how there has been a substantial 3D printing presence throughout universities. The universities' "business incubators" consist of high performing 3D printing technology where they promote the integration of engineering and business students to form their entrepreneurial ideas. A university's investment has begun a revolution for young minds to innovate and utilize a rent-free office space to accommodate their start-ups or other business ventures.

Beyond the university developments, 3D printing is becoming a solution for virtually every industry. No matter what industry, it's almost guaranteed that 3D printing can improve some aspect of that business. The use of 3D printing in a business can range from offering less expensive production costs for a component, to efficiently creating a 3D printed mold for a component's accuracy. I've noticed that prototyping ideas have become more common as well. No matter what the business solution is, there is usually a way for 3D printing to add value to any business.

After working with R&D tax credit recipients in various industries, it is becoming apparent that the incorporation of 3D printers has expanded our client's ability to improve their products and processes.

Rafaella July, Tax Analyst, R&D Tax Savers – *Bio-Printing*

I have been writing about 3D printing since the beginning of my 2017 summer internship at R&D Tax Savers. As I learned more and more about the subject, my interest honed into the area of medical 3D printing. As a nursing student, it was fascinating to learn about the ways 3D printing has had a huge impact in the world of medicine; it truly is the future. I have written articles on 3D bio-printing, 3D printed medical devices, and other life saving innovations. The experience I have had learning and writing about 3D printing has expanded my interest from simply clinical medicine to the world of technology that is the driving force of clinics, hospitals, and all other medical institutions.

Alize Margulis, Tax Analyst, R&D Tax Savers, *Why I Enjoy the Industry*

I enjoy writing for 3DPrint.com since I get to learn about various industries that, prior to doing research, I didn't know used additive manufacturing. I attended the two-day Cimquest 3D Printing Trade Show last year and thought it was a perfect opportunity to meet and speak to people who use additive manufacturing in their businesses. Coming from an ophthalmic background, it was neat to see 3D printed glasses! I even met with French businesses from Canada involved with the software and engineering used in 3D printing. I recently wrote an article about 3D printing ski and snowboard gear. It is amazing to think that for the Paralympics, athletes are resorting to 3D printed mono-skis. This is fascinating that Olympians are using this technology for their competitions.

Lara Tomiko, Tax Analyst, R&D Tax Savers, *Sustainability & Environmental Impact*

At R&D Tax Savers I have edited many of our 3D printing articles. As an environmentalist, I am particularly interested in reading and learning about topics related to 3D printing's role in sustainable manufacturing. Presently, there seems to be an ongoing debate within the clean tech community in regards to how 3D printing's direct emissions and energy usage compares to other existing manufacturing methods such as injection molding, from cradle to grave. It is clear that 3D printing has the potential to become a key player in the green revolution, but only when used in the correct context. Many factors come into play when considering the carbon footprint of additive manufacturing as it compares to traditional manufacturing methods, and more research is needed. I look forward to witnessing the evolution of 3D printing as it pertains to the environment.

Conclusion

The women of R&D Tax Savers are going to continue keeping abreast of 3D printer developments. Our research is enhanced by the practical insight we obtain from our large client base of companies increasingly using 3D printers for design and new and improved product and process development.