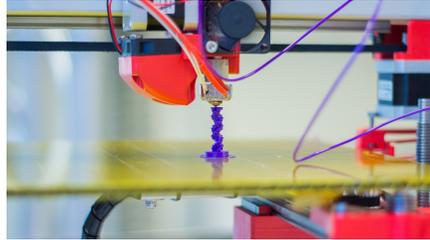


## The Future-Focused Economy

### What's Happening Now

During the Great Recession when the tumbling of iconic economic strongholds shook the whole of the nation, Arizona was incubating Science Foundation Arizona (SFAz) and forging a new economic foundation, strengthened by the diversity and nature of its industries and investments.



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SFAz's approach of investing in those industries that will rule the 21<sup>st</sup> century is demonstrating enormous results and economic returns, providing the opportunity to create a new, enduring economic model that positions Arizona as a global leader.

### Arizona's Opportunity

Founded in 2006, Science Foundation Arizona was formed by a pioneering mandate from the State's political, education, business and philanthropic leadership to create a unique public-private investment vehicle, leveraging Arizona's special strengths for building a world renowned technology, research and health-based economy.

Engaging the brightest minds from around the globe, SFAz identified fields such as modern mining, cyber security, healthcare and personalized medicine, aerospace and defense, data and IT, and clean energy through technology as areas of great economic importance and potential for Arizona. More than \$70 million has been invested in research in these and other scientific and engineering areas since 2007.

In the short term, investments have already netted powerful results:

207

patents filed  
or issued

23

technology  
licenses filed

1,865

new jobs

24

new companies

For the long term, these and other new investments fortify Arizona to be a viable competitor in the future economy. In 2014, *Forbes* named its top "[\\$10+ Billion Big Industries of the Future.](#)" On the list was the internet of things, with a prediction that by 2020, 26 billion devices will be ready for networking. Also cited is the 3D printing revolution and solar energy. Rounding out *Forbes'* top 10 is smartdust, programmable matter and nanotechnology, which have the power to revolutionize pharmaceuticals and medicine in general, as well as how we dress, and even how we drive.

SFAz has invested either directly or through related interests in each of these markets predicted to become multi-billion dollar industries, creating a magnet for new and expanding industry.

With each issue of "SFAz:

Arizona's Advantage," we invite you to learn about [SFAz's results](#) and how by working together, we're building a future-focused economy for our state.



### The SFAz Connection

- SFAz just awarded young scientist Dr. Heather Emady a \$200,000 [Bisgrove Scholar](#) research grant to study powder and particulate science at Arizona State University. Her results will ultimately affect scientists' and engineers' ability to manipulate particles, with the potential to affect disease treatment, food production, mining and many more industries.
- REhnu – SFAz funded a total of \$2.7 million to a UofA scientist to find ways to use focused sunlight to reduce the cost of solar generation to that of fossil fuels. The investment led to an additional \$5 million in federal and private funding, and the creation of a new company, REhnu, now serving customers in Arizona, California and Mexico.
- 2015 Bisgrove Scholar Dr. Owen Hildreth's 3-D printing research is seeking to dramatically simplify techniques for micro-scale and nano-scale fabrication using inkjet-style printers, with applications in vital Arizona industries including electronic manufacturing, photovoltaics and medical sensors.

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