
Who we are

Zymergen is a science and material innovation company rethinking biology and reimagining the world. A World Economic Forum Tech Pioneer, Zymergen partners with nature to create never-before imagined materials and products across industries—from agriculture to electronics, personal care to pharmaceuticals, and more. Using a powerful combination of biology, machine learning, data science and automation, the company’s proprietary metagenomic library helps catalyze new discoveries. Zymergen’s revolutionary process produces better performing bio-based materials in a way that is faster, less expensive, more efficient and more sustainable for Fortune 1000 companies and major corporations across the globe. Its partners have sold over \$1 billion worth of products using Zymergen microbial innovations. For more information visit: www.zymergen.com.

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About us—fast facts

- Founded in 2013 by Zach Serber, Jed Dean and Josh Hoffman
- Headquartered in Emeryville, CA with additional locations in Seattle, Boise, Boston, and Tokyo
- Approximately 850 employees, globally; some of the world’s best biologists working alongside software and automation engineers and ML experts
- Over \$600 million in investment funding to date
- Leading company in non-therapeutic applications of synthetic biology
- Comprehensive IP portfolio for novel new materials and processes: 80 patent families; 124 patents pending; 7 issued to date
- One of the world’s largest metagenomic libraries: 6 billion data points; 200 million proprietary genes; 2.3 terabases and over 1M natural product clusters
- Some of the most advanced lab automation systems in world, with modular infrastructure and equipment that allows lab re-configuration in minutes, reducing downtime and dramatically increasing throughput
- Proprietary software language for translating design ideas into platform instructions for strain edits, and production-level machine learning algorithms that generate new discoveries and optimized strains
- Largest installed base of lab-scale fermenters in North America
- A rapidly growing partner ecosystem, with 20 global Fortune 500 partnerships today
- Proven and scaled material innovations that are transforming the electronics, agriculture and consumer products spaces, with over \$1 billion of product containing our innovations sold to date and new innovations emerging every month for applications across industries
- Exceptional governance and management: the Zymergen board of directors includes domain experts from across the biology, pharmaceutical, academic, technology and investment communities

What makes us unique—we discover, design and scale novel new materials at unprecedented speed

Our founding principle: we partner with nature

- Biology is the most powerful manufacturing system in the world
- The opportunities to harness the biological world are almost limitless, which provides an equal breadth of opportunity for different industries
- Our approach to material creation is all natural, using dramatically fewer petro-based chemicals
- Our materials and processes are environmentally sound and better for the planet and people than many traditional petro-chemical derived products

Our solutions are technically & technologically advanced

- We own one of the largest DNA (metagenomic) libraries on the planet
- We realize results that are near impossible to achieve without the use of our platform, which uses powerful machine learning and AI capabilities to unlock and use biology as a source material
- We have advanced robots and automation processes to rapidly run experiments
- As the platform grows so do the possibilities for new products—it's a compounding/accelerating discovery process

Our solutions are functional and real

- Typically faster to make and shorter time to value than many petrochem derived materials
- We can make specialty bio-based products at different scales for different applications
- Solving real partner, customer and global challenges in a number of industries – ranging from agriculture products to electronics

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Proof points

Printed electronics:

With a partner in the specialty chemical space, Zymergen developed a novel bio-inspired film that enables the creation of completely transparent, high-temperature printed electronics. The glass-like substrate product we've developed is thinner and more flexible than the equivalent incumbent material, and has high temperature resistance that enables producers to use less conductive material without losing effectiveness.

Flexible adhesive:

Zymergen has developed a novel range of bio-inspired products for the adhesives chemical industry. One of the latest developments is the creation of bio-based poly that has a substantially greater elongation at break and a substantially greater surface hardness than materials in the market today. This combination is rare, but as a result, the material is very suitable for sealing applications as well as adhesive between different types of substrate.

Mussel inspired bonding:

Zymergen is excellent at combining biology and material science – unlocking what nature offers to create materials the market needs. A great example of this is the mussel. In nature, mussels bond to hard surfaces like steel, rock or concrete - we were able to develop a group of biologically derived adhesives with similar properties to those found in mussels, and exceptional bonding strength that rivals solutions in the market today. The solutions are transparent and bio-based, and have potential applications in structural components (like engine mounts), coatings and more.

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