Our Mission: A bio-ingenuity company™ harnessing the power of nature to tackle the world's toughest environmental challenges for net positive impact.

Who We Are: At Allonnia, we believe that waste is a failure of imagination. That's why we are dedicated to extracting value where others see waste. We believe that elegant solutions to the world's biggest problems will be found in the world's smallest organisms. We're pioneering novel approaches and imaginative combinations in biotechnology and engineering to solve waste challenges in nature, using nature.

Fast Facts:

- Allonnia launched in 2020 as a spinoff of the biotechnology company Ginkgo Bioworks.
- Allonnia has raised $90M in funds to date; stemming from an initial Series A of $60M and an extension of $30M.
- Primary investors in Allonnia are Bison Ventures, IRONGREY, BHP Ventures, Vale Ventures, Wholestack LP, PPNG, Battelle, General Atlantic, and Viking Global Investors.
- Allonnia is approaching 50 employees, and we are actively expanding our team.
- Allonnia is headquartered in Boston, MA in the Seaport District.

Our Technology: Allonnia develops biotechnology and engineered products through adaptive platforms capable of tackling waste challenges across emerging contaminants, including PFAS and 1,4 dioxane; and sustainable mining, including selective gangue removal and stockpile stability. These platforms enable Allonnia to discover, design, and deploy natural solutions to urgent environmental problems through new remediation, upcycling, and valorization techniques.

Our 2040 Sustainability Goals:

- *Clean Water*: By 2040, Allonnia aims to have detoxified and released 600 billion gallons of water using our suite of decontamination technologies.
- *Healthy Environment*: By 2040, Allonnia aims to have produced 120 million tons of critical mining materials through sustainable mining.
- *Lower CO_2*: By 2040, Allonnia aims to have captured 100 million tons of CO_2.

Our Partners:

- Allonnia partners with industries on some of their hardest waste and environmental challenges.
- Allonnia works with engineering and consulting companies to remediate emerging contaminants across landfills, municipalities, and government sites.
- Allonnia partners with some of the largest mining companies in the world.

Our Current Products:
Allonnia has commercialized two products since 2020, with more on the way:

- **SAFF:** Allonnia targets the harmful chemical PFAS through Surface Active Foam Fractionation (SAFF®) technology.
    - SAFF is a sustainably engineered PFAS remediation tool that uses a combination of aeration and vacuum to remove over 99.99% of PFAS molecules from water.
    - SAFF works by using rising air bubbles to rapidly remove harmful PFAS contaminants from the environment, creating a separate concentration of PFAS chemicals that can then be transported and destroyed.
    - SAFF can be paired with any number of PFAS destruction technologies to permanently remove PFAS from the environment.
    - SAFF is manufactured by EPOC Enviro, and Allonnia is the exclusive distributor for the North American market.
    - Allonnia is also developing a suite of cationic 'boosters' to pair with and enhance SAFF. This technology will improve the removal of certain short-chain molecules through increased aggregation and subsequent separation.

- **1,4 D-Stroy:** Allonnia 1,4 D-Stroy™ is the second commercial product we offer targeting forever chemicals.
    - 1,4 D-Stroy utilizes highly specialized, natural microbes to provide a sustainable, low-cost, and low-maintenance solution that breaks down 1,4-dioxane into only water and carbon dioxide.
    - 1,4 D-Stroy has proven in field tests to degrade over 99% of 1,4-dioxane in contaminated groundwater metabolizing it into only water and carbon dioxide.
    - This natural solution to groundwater contamination is approved by U.S. regulators and can be deployed today.

- **PFAS Sensor:** Allonnia is developing a first-of-its-kind PFAS sensor to better detect where SAFF should be applied.
    - Allonnia's PFAS sensor will be capable of detecting PFAS down to parts per trillion – the equivalent of one drop in an olympic size swimming pool.
    - Allonnia's PFAS sensor uses advanced technology to seek out and bond to target contamination at extremely low concentrations collected within on-site samples.
    - This technology makes it possible to perform these tests instantaneously in the field with a handheld device. Whereas the current technology available requires samples to be sent away to a lab and can take weeks to produce results.
    - Lab testing has estimated that Allonnia's PFAS sensor will save more than 50% of current PFAS testing costs.

About Forever Chemicals:

- PFAS is most commonly used in fire-fighting foam and teflon non-stick pans, and when it bioaccumulates inside our bodies it causes a range of health issues. The U.S. EPA and the European Union have both recognized PFAS as a contaminant of drinking water and a hazard to human health.
- 1,4-dioxane has been widely used for industrial chemical processes since the 1950s, and the U.S. EPA lists it as one of the most prevalent emerging contaminants and a likely human carcinogen.