



Team Name:
AlgenTechnik



What do we do?

AlgenTechnik is a biotech startup that produces **microalgae** as a high-quality alt-protein source for the dairy industry while utilizing Carbon Dioxide and recycling waste from the dairy industry.



Why microalgae?

What makes microalgae so special in the wild competitive alt-protein space? Well, it needs no recurring water streams, no fertilizer, can be produced anywhere in the world (deserts, shores). As a plant-based protein, microalgae is far better performing than soybeans in terms of productivity and sustainability. It utilizes 2 Kg of CO₂e when produced, while soybeans emit 6.44 Kg of CO₂e. Microalgae is also considered a super food with a rich nutritional profile



Market and Competition

Alt-protein is the future of food

The beachhead direct application of this product would be high protein ingredients to be added to alternative milk and dairy. When it comes to alt-protein growth applications, the sky is the limit, with applications ranging from meat-analogues to microalgae food retail, to feed additives...



Main Players

Algonomi
Redono
Mialgae
SunOleo
Fermentalg
Inalve
FUL
Allmicroalgae
Algama



Where are we now?

Technology-Dev

We raised a prototyping grant to optimize the bioreactor, which we are doing at TUM Venture Lab FAB in Weihenstephan. We are also developing and optimizing the bioprocess concept

Market-Discovery

We launched a market discovery campaign aimed at understanding and analyzing the market and building stakeholder connections



Unique Value Proposition

Current production costs are high, which makes scale-up to industrial scale hard.

What do we do differently?

We adopt a comprehensive innovation approach focused on optimizing the reactor, upstream, downstream, and the strain. Moreover, we optimize the process to produce microalgae with the exact protein and nutrient requirements of the industry partners with competitive prices and super quality



The Team

We are a tech-driven team with just the right skillset. We know how bioprocess, food-tech, alt-proteins, and sustainability work, and we are very passionate about it

Khalil Kaddoura: Bioprocess Engineering, sustainability management

Jona Rott: Bioeconomy, sustainability management

Hamzah El Fatory: Process Engineering

To complement our skillset, we are looking for a team-player and changemaker with a risk-taking entrepreneurial mindset with a background in management to work on Market analysis and research, business planning, go-to-market strategy, network building, stakeholder management, strategy, competition, branding, and investment. Contact: Khalil.kaddoura@tum.de