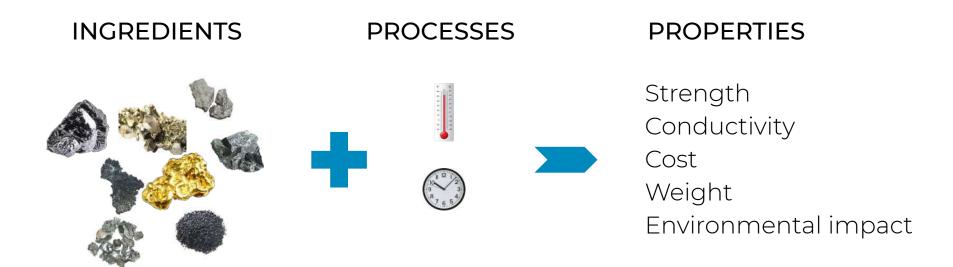


Deep learning for industrial formulations and materials

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Optimize industrial formulations and materials



Challenge

Contemporary materials design is **expert driven** and **iterative**

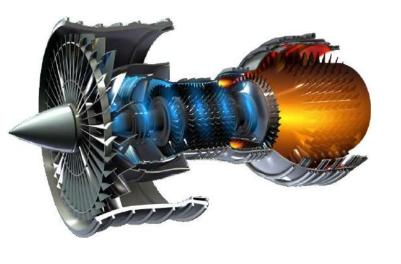
Identification and optimisation can cost >\$10m

Our unique selling point

Unique deep learning tool for sparse and noisy data

Deliver an optimized, data driven R&D process creating reduction in cost and time to market

Application: alloys for jet engine



Accelerated discovery and validation to 2 years

Nickel alloys for discs

Molybdenum alloys for forging

Alloy for additive manufacturing

More details in patents and six papers: https://www.intellegens.co.uk/paper.html

Traction and funding

Multiple **paid** projects across materials, chemicals, and drugs

Paid for **full stack solution** with major chemical company

AlchemiteTM engine integrated with reseller, Optibrium, in pharmaceuticals

Team



Ben Pellegrini CEO, co-founder



Dr Gareth Conduit CTO, co-founder

Engineering	Commercial	Scientific
Dr Robert Parini Head of platform	Jamie Smith Commercial director	Dr Tom Whitehead Head of machine learning
Sebas Higler	Dr Andrea Olguin	
Developer	Marketing manager	Dr Mattia Cinelli Scientist
	Sue Flatman	
	Financial controller	Pavao Santak Scientist

Board Dr Elaine Loukes University investor Graham Snudden Angel investor Ben Pellegrini Gareth Conduit

Funding objectives

Grow team to develop a **generic** platform

Develop IP strategy and portfolio

What we want from program

Collaborate with customer R&D teams on current advanced materials problems

Identify opportunities to develop new material IP

What Intellegens can bring to the program

Unique deep learning technology

Team experienced in delivering commercial benefit, here focusing on materials and processes for

- heat resistant & lightweight alloys
- composites
- processes for additive manufacturing

Information

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Website https://intellegens.ai

Inventor https://www.tcm.phy.cam.ac.uk/~gjc29/

Papers

https://www.intellegens.co.uk/paper.html

Demonstrator

https://app.intellegens.ai