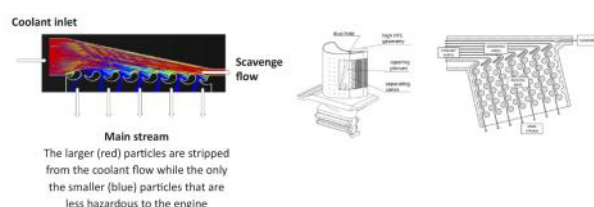


Internal blade structures to create a cleaner grade of coolant

Turbine blades with cooling systems better protected against particle build up. Effective cooling requires a high heat transfer that may be enabled by fine geometry that is at risk of blockage by particles. Here, the trailing edge region is protected and may have fine cooling channels deployed there.

Applications: Cooling of turbine blades



Features	Benefits
Particle separator in turbine blades	Separates suspended particles from the coolant flow that can accumulate inside the blade cavity
The separator creates a scavenge stream comprising the separated particles	Leaves a main stream substantially free from separated particles

Awaiting patent and Available for

- Co-development
- Consulting
- Licensing

To find out more, contact enquiries@innovation.ox.ac.uk and quote the project number.

The above information is provided 'as is' without conditions or warranties. Oxford University Innovation makes no representation and gives no warranty that it is the owner of the intellectual property rights in the technology described. © Oxford University Innovation Ltd 2026, Buxton Court, 3 West Way, Oxford, OX2 0JB.