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## Advanced Materials Research Group project summary

<b>Project Title</b>	Investigating New Thermal Barrier Coating with Lower Thermal Conductivity for Aero-Engine Application
<b>Researcher</b>	Miss Jing Wang Email: <a href="mailto:emxjw2@nottingham.ac.uk">emxjw2@nottingham.ac.uk</a>
<b>Project Summary</b>	My project is to investigate new ceramic candidates of thermal barrier coatings (TBC) for aero-engine applications. The new TBC materials based on rare earth oxides doped zirconia are expected to have lower thermal conductivity, higher thermal expansion coefficient, phase stability, thermal stability and chemical inertness when coatings being heating up and cooling down.