PhD Project Title: Advanced Composites

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<tr>
<th>Degree Programme</th>
<th>Advanced Composites PhD</th>
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<tr>
<td>Department</td>
<td>EPSRC Centre for Doctoral Training in Composites Science, Engineering and Manufacturing. This is based in the School of Civil, Aerospace and Mechanical Engineering.</td>
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<td>Scholarship</td>
<td>Funding is available for UK/EU/international students covering tuition fees and a tax-free stipend at the UKRI doctoral stipend level (this was £15,609 in 2021/22) topped up to a minimum of £17,109 - awards increase every year, typically with inflation, so these figures may change for 2022/23. The PhD comes with a generous allowance for equipment, software and conference travel.</td>
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<td>Funding Duration</td>
<td>4 years</td>
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<td>Eligibility</td>
<td>Home/EU applicants only</td>
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<td>Start date</td>
<td>September 2022</td>
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**PhD Topic Background/Description**

Collaborative PhD projects between the University of Bristol and Rolls-Royce are available as follows:

- **Ceramic Matrix Composites (CMC) modelling**
  CMCs are materials that are used in high temperature applications. Therefore, as well as thermo-mechanical loads and damage, they also encounter environmental degradation. This project will develop numerical models for this environmental degradation and its interaction with mechanical damage modes for CMCs.

- **A second studentship is available on a subject to be determined in agreement with Rolls-Royce.**

The four-year Advanced Composites PhD programme is based in the EPSRC Centre of Doctoral Training in Composites Science, Engineering and Manufacturing. It comprises one-year of innovative taught components and a three-year research project (as specified above). The taught components will fast-track graduates with science and mathematics backgrounds to acquire core engineering skills, while engineering graduates will broaden their scientific knowledge before specialising in industrial application.

The three-year research project will be jointly supervised by the academic and industrial supervisors. It is an excellent opportunity to collaborate with a world leading research teams in composites, with
Further Particulars

**Candidate Requirements**
We’re looking for exceptional students, with at least a high 2:1 Honours degree, from across all engineering and science subjects. See [international equivalent qualifications](#) on the International Office website.

**Informal enquiries**
For enquiries, please email the Centre for Doctoral Training - [composites-cdt@bristol.ac.uk](mailto:composites-cdt@bristol.ac.uk)

**Application Details**
To apply for this studentship, submit a PhD application using our [online application system](#).

Please select PhD Advanced Composites on the Programme Choice page and enter details of the studentship when prompted in the Funding and Research Details sections of the form with the name of the supervisor.

**Closing date for application: 1st April 2022**

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