

Brahmal Vasudevan Institute for Sustainable Aviation

**PHD STUDENTSHIP IN COMPUTATIONAL MODELLING FOR SUSTAINABLE AVIATION
(REF: AE0044_v2)**

Deadline: Until filled

Applications are invited for a Ph.D. studentship at the Brahmal Institute, a collaborative research centre at Imperial College enabling blue-sky thinking to address adverse environmental impacts of aviation. The project is cross-disciplinary and the successful candidate will collaborate with leading researchers within Imperial.

A key challenge of achieving sustainable aviation is the high level of uncertainty in the environmental impacts arising from non-CO₂ emissions, including emissions of nitrogen oxides and the formation of contrails. This studentship is aimed at improving our understanding of these impacts, potentially including effects on the climate, air quality, the ozone layer, or other environmental outcomes.

The project will involve the development and application of novel computational techniques to advance our understanding, evaluating the accuracy of these advances against observations and designing new solutions to these problems. Whilst the specific direction of the research is flexible depending on the candidate's interests, experience and/or genuine interest in computational models/numerical simulation will be a benefit as the project will involve development of complex numerical simulation codes.

Applications are invited from candidates with (or who are expected to gain) a first-class honours degree or equivalent in a suitable field such as engineering, computer science, physics, or atmospheric science.

Funding

This studentship is for 3.5 years and will provide full coverage of tuition fees and an annual tax-free stipend of approximately £20,622 for Home, EU and International students.

Information on fee status can be found at <https://www.imperial.ac.uk/study/pg/fees-and-funding/tuition-fees/fee-status/>

To learn more about Imperial College, please go to www.imperial.ac.uk/study/pg. To apply for these fully-funded studentships please go to <https://www.imperial.ac.uk/study/apply/postgraduate-doctoral/application-process/> and indicate in your application the reference code for the project(s) you are most interested. Please address your application to Department of Aeronautics. For further inquiries, contact us at brahmal-institute@imperial.ac.uk or for specific questions regarding the nature of the research please contact the project lead **Dr. Sebastian Eastham** (s.eastham@imperial.ac.uk).

Imperial College is committed to equality and valuing diversity. We are also an Athena SWAN Silver Award winner, a Stonewall Diversity Champion, a Disability Confident Employer and are working in partnership with GIRES to promote respect for trans people.