



Interdisciplinary, 3 weeks, online PhD - Summer School on

## “Aviation Climate Impacts”

4<sup>th</sup> July to 21<sup>st</sup> July 2022

Organised by  ECATS International Association

### PhD Summer School Outline



#### OBJECTIVE

- Bring early career scientists and engineers together and exchange knowledge from different disciplines on one common topic: “Aviation Climate Impacts”
- Build strong international ties between students
- Stimulate new research
- Invest in the future

#### TOPICS

- Aerospace engineering (design, combustion)
- Chemical engineering (fuels, LCA)
- Climate science
- Economics / Regulation
- New concepts (e.g., super and hypersonic transport)
- Industry perspective

#### FEATURES

- Lectures
- Mentoring sessions
- Q & A sessions
- Group work (Assignments and Presentations)
- Conference style sessions with chair and panel
- Use of suitable group meeting, Q&A and working environment platforms and interactive illustrative tools to assist learning
- Total student workload 80-100 hrs

#### WHO CAN PARTICIPATE

- 30 PhD-students with topics in the area of Aviation Climate Impacts
    - 50% from MORE & LESS partners
    - 25% from ECATS partners
    - 25% open
- (late-stage MSc-students or young engineers may also apply)

#### CONCEPT

- Week 1 (2 days): Opening / Group matching based on research area and PhD topic / Introduction within groups / 1st assignment based on knowledge from PhDs from different areas / Mentor sessions for support in assignments / Presentation and Panel Discussion
- Weeks 1 - 2: Lectures + Written summary of lectures by student groups
- Week 3: 2nd Assignment / mentor sessions for support in assignments / final presentations
- All weeks:
  - Introduction video clarifying what is the plan & expectation for the coming week
  - Q&A session at the end of the week reflecting assignments and lectures

#### APPLICATION AND SELECTION

- Application open: Beginning of April 2022 / <http://www.ecats-network.eu/>
- Application deadline: 1 May 2022
- Applicants will be selected based on motivation, balanced distribution between partners and research areas.
- Applicants will be notified by Mid May
- Further details on the application scheme: <http://www.ecats-network.eu/>

#### CERTIFICATE

- ECATS / MORE & LESS Summer School certificate

#### COST

- The Summer School is free of charge to all selected participants

#### LEARNING OUTCOMES

- Experience working in multidisciplinary science and technology teams
- Practise on efficient scientific networking and professional communication
- Insights and feedback from renowned experts in the field
- Abilities to communicate effectively with stakeholders
- Practice to present research project and results
- Identify and pursue open scientific issues – Research project planning

#### ORGANIZING COMMITTEE

Prof. Dr. Volker Grewe (DLR/TU-Delft)  
Dr Simon Blakey (University Birmingham)  
Ayce Celikel (ENVISA)  
Prof. Dr. Thrassos Panidis (University Patras)