



Technische
Universität
Braunschweig



INSTITUT
FÜR AKUSTIK

International Research Opportunity for Master's Students

Noise mitigation for shrouded fans

We welcome motivated master's students to participate in an excellent research opportunity focused on noise mitigation strategies for shrouded fans. Such fans can be used for instance in drones, heat pumps, and for battery cooling in electric vehicles. In a numerical study, we will investigate the design of acoustic wall treatments that can be included in the fan's shroud. Collaborating closely with researchers from KTH Stockholm, Sweden, and the Technical University of Braunschweig, Germany, we aim at exploring conceptual methods for noise control solutions that are both efficient and compact.

Your primary responsibility in this project is to set up and perform numerical computations that mimic the noise radiated by a fan in a short, acoustically lined duct. This undertaking involves defining test scenarios, model setup, solution, post-processing, and evaluation.

By joining our team, you will have the opportunity to engage in an international network of scholars. Additionally, you will have the possibility to spend half your research time in Stockholm, Sweden, and in Braunschweig, Germany. If you are a dedicated master's student committed to contributing meaningfully to noise pollution reduction through advanced computational research, we invite you to send us your application.



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