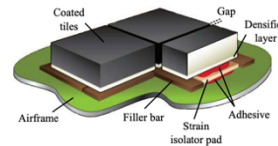
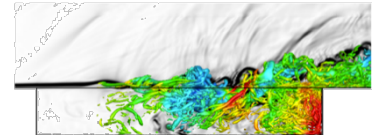


Looking to Explore New Frontiers in Hypersonic Aerodynamics?

The Applied Aerodynamics & Aeroacoustics Research Lab (A³RL) is looking for **excellent M.Sc. and Ph.D. students** to join our exciting research to understand **how surface gaps induce boundary layer transition in hypersonic flows** - a critical phenomenon for optimizing the performance of hypersonic vehicles!

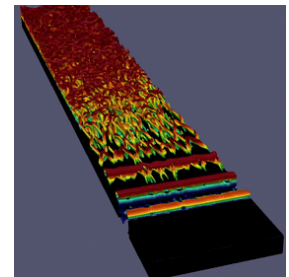


The project combines **high-fidelity CFD simulations** (LES & DNS) and **linear stability analysis** to uncover how gaps affect flow stability, drag, and heat transfer. You'll gain **hands-on experience** with advanced computational tools (Cadence CharLES and Simulia PowerFLOW) while **contributing to innovative findings that impact the future of aerospace engineering**.



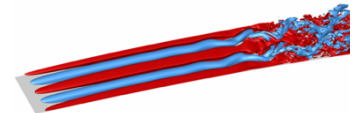
What You'll Do?

- Conduct CFD simulations of super- and hyper-sonic flows to study gap-induced instabilities.
- Analyze transition mechanisms and develop predictive models.
- Collaborate with leading researchers and present your work at international conferences.



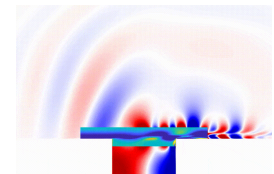
Why Join?

- Be part of an impactful project advancing hypersonic technology.
- Develop expertise in CFD, stability analysis, and hypersonic aerodynamics.
- Gain experience in basic and applied research to pave the way to a rewarding career in academia and industry.



Background

- Numerical analysis, incompressible / compressible / viscous flow.
- Advantage – experience in CFD, hypersonic flows, and stability analysis.



SCAN & APPLY
HERE

Interested?

Contact **Dr. Hadar Ben-Gida**

bengida@technion.ac.il

Applicants should provide a detailed CV + up-to-date transcript of current degree