

**Do you want to do your project in the propulsion and power laboratory (PP Lab)?
Are you looking to apply your knowledge and technical skills together with a team of highly skilled professionals?**



PP Lab: The [Propulsion and Power](#) laboratory is located in the high speed building of the aerospace faculty, TU Delft. Facilities such as flameless combustor, mini turbojet engine and a high-speed vapor tunnel (The ORCHID) are enabling the transition to a renewable energy scenario.



Objective: To assist with the cold and hot commissioning activities of the ORCHID facility in the PP Lab.

Tasks and Responsibilities: Tasks are general and may consist of one or several of the following:

- Assist with cold and hot tests, e.g., loop testing activities
- Writing documentation, e.g., the instruction and operations manual (IOM) ect.
- Tuning PID constants for several control loops.
- Assist in the experiments, which may lead to a master thesis.
- Contribute to safety-related studies,
- Contribute to the development of the test facility.

Required profile:

Some (not all) courses/skills such as: Control Theory, Optimization in Systems and Control, Sensors and Actuators, Real-Time Systems, Modelling of Thermo- & Hydrodynamic Systems, LabView programming or similar, Renewable Energy Technology, The Necessity of Storage Technology, Advanced Heat Transfer, Process Plant Design, Advanced Applied Thermodynamics, and Equipment for Heat & Mass Transfer are recommended (not mandatory) since they are useful to meet the objective. It is an added advantage if the interested applicant has practical laboratory experience.

Duration: 1-4 months

Start-date: ASAP

Perks: A unique chance to extend your knowledge and experience within an active lab at the forefront of renewable technology research.

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Note: It is also possible to apply for a master thesis assignment after the project.