National Technical University of Athens

TWEET-IE
Twin Wind tunnels for Energy & the EnvironmenT
INNOVATIONS - EXCELLENCE
Co-funded by the European Union

Job Description:
Research Assistant on Wind Turbine Wake Modelling

School:	Mechanical Engineering
Salary:	1300 € per month
Hours of work:	Full time position (40 hours per week)
Duration:	This is a fixed term position for 12 months from date of appointment or until 30 October 2025, whichever is sooner. Shorter durations with a minimum of 6 months can be considered.
Location:	This position will be based at the Zografou Campus, but flexible working will be considered
Application Deadline	We'll be accepting applications until the position is filled. We will be reviewing applications every Monday.
Starting Date	ASAP
More info	marinos@fluid.mech.ntua.gr, Dr Marinos Manolesos
How to apply:	Please send us an updated CV and a short cover letter

Introduction	The National Technical University of Athens is the coordinator of the TWEET-IE project funded by the European committee. Within the project a blind test campaign has been launched aiming at improving our understanding and modelling of wind turbine wakes and their control. State of the art Wind tunnel experiments were performed at the NTUA wind tunnel, using the Wind Turbine models by the Technical University of Munich and the Particle Tracking Velocimetry by Delft Technical University.
Role Summary	This role considers leading the blind test campaign data analysis and comparison. The successful candidate will be dealing with benchmark (wind tunnel) data and the CFD submissions to the blind test campaign.

Background information	The appointed research assistant will be based at the Zografou Campus of NTUA, as a member of the laboratory of Aerodynamics, working closely with Dr Marinos Manolesos Wind tunnel facility: http://wt.fluid.mech.ntua.gr/
Main Duties	**Specific responsibilities:** 1. Analysis of wind tunnel data (power, velocity and load measurements) on wake dynamic control. 2. Analysis of CFD data from various contributors and comparison with wind tunnel results 3. Prepare reports, draft patents and research papers describing the results of the research, both confidential and for publication. **General Research Assistant responsibilities:** 4. Pro-actively contribute to and conduct research, including gather, prepare and analyse data, generate original ideas and present results. 5. Approach challenges with creativity, and seek guidance when necessary to find suitable solutions. 6. Maintain positive, professional interactions with colleagues, partners, and collaborators both within the College and beyond. 7. Support organizational matters to ensure smooth functioning and enhance the University's external research profile. 8. Keep up to date with technical, specific, and general advancements, recognizing their wider implications for the discipline.
General Duties	9. Foster equality and diversity in workplace practices and nurture positive working relationships. 10. Perform all duties in line with health, safety, and sustainability policies, ensuring activities minimize risks and environmental impact. 11. Incorporate risk management into decision-making, ensuring adherence to the University's Risk Management Policy.
Person Specification	**Essential criteria:** 1. A Degree in aerospace/mechanical engineering or related field 2. Experience in physical and/or numerical modelling of wind turbine wakes 3. Evidence of the ability to actively engage in and contribute to writing and publishing research papers, particularly for refereed journals.

	4. A demonstrable ability to conduct research. 5. Evidence of planning skills to contribute to the research project. **Desirable Criteria:** 6. A post-graduate in aerospace/mechanical engineering or related field 7. Track record of publications in refereed journals 8. Track record of participating in international conferences