LITHUANIAN ENERGY INSTITUTE

ADMISSION TO PHD STUDIES FOR THE YEAR 2026

DOCTORAL RESEARCH TOPIC:

Numerical study of the interaction of fluid flows with elastic and moving bodies

RESEARCH FIELD:

Energetics and Power Engineering (T 006)

BRIEF DESCRIPTION OF RESEARCH TOPIC:

We invite students to further develop their competencies by choosing a PhD topic focused on the application of advanced 3D simulations to study body-fluid interactions. Research in the interaction between bodies and surrounding fluids has various applications, such as:

- rotating ship propellers,
- drones,
- swimming fish,
- the human blood circulatory system,
- heat distribution networks,
- nuclear reactor components,
- and many more...

The PhD candidate will use advanced computational technologies to conduct relevant 3D simulations of body-fluid interactions, presenting findings to the public, participating in international conferences abroad, and expanding their network of like-minded professionals. These studies will not only address today's challenges but also allow the candidate to grow their skills in areas like problem-solving and analysis, 3D simulation applications, and the dissemination of results.

The research team offering these topics has over 10 years of experience in the field, so they are ready to assist, advice, and motivate.

Young scientists interested in pursuing doctoral studies in these areas are encouraged to contact the project supervisor for further information.

SCIENTIFIC SUPERVISOR:

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More information and the full list of offered PhD topics available at our website

https://www.lei.lt/en/phd-studies/