2 PhD positions on Analysis and Control of nD flexible systems

Within the prestigious EU’s Horizon Europe Marie Skłodowska-Curie Actions programme, the ModConFlex project will bring together 17 academic and industrial partners across Europe and Israel to boost the career of doctoral candidates by forming a doctoral training programme to prepare the next generation of researchers on the modelling and control of flexible structures interacting with fluids (water and air). The academia-industry consortium will make important contributions to control theory, AI and energy-based modelling within the context of flexible structures in fluid environments.

In the Functional Analysis Group at Wuppertal University there are two PhD positions (full time positions for 36 month) to be filled working on Analysis and Control of flexible systems. A port-Hamiltonian operator theoretial approach will be used to analyse well-posedness, stability and system theoretical properties of 2D (semilinear) mechanical structures.

Requirements

- A Master’s Degree in Mathematics or related disciplines.
- A strong background in one or more of the following fields: Partial Differential Equations, Functional Analysis, Operator Theory.
- Highly motivated to work in research in one of these fields.
- Excellent knowledge of English (written and spoken).

The applicants must not hold a PhD and must not have resided or carried out their main activity (work, studies, etc.) in Germany for more than 12 months in the 36 months immediately before the recruitment date - unless as part of a compulsory national service or a procedure for obtaining refugee status under the Geneva Convention.

We offer:

- Full time position for 36 months starting August, 1st, 2023 at the latest.
- Benefits of secondments (to the UK, France and the Netherlands), a variety of training modules as well as transferable skills courses and active participation in workshops and conferences.
- A gross salary (including employer’s social contributions) of 3.342,20€ or 4.602,20€, depending on family situation.

Further enquiries or applications including all relevant credentials (motivation letter, CV, proof of successful graduation, transcripts, job references) should be addressed to Prof. Dr. Birgit Jacob via bjacob@uni-wuppertal.de.
Apply as soon as possible (at the latest end of March 2023).

The University of Wuppertal is an equal opportunity employer. Applications from persons of any gender are highly welcome. In accordance with the Gender Equality Act of North Rhine-Westphalia women will be given preferential consideration unless there are compelling reasons in favour of an applicant who is not female. The same applies to applications from disabled persons, who will be given preference in the case of equal suitability.