

ENHANCE YOUR ENGINEERING RESEARCH COMPETENCIES WITH A

POST-MASTERS ENGINEERING DOCTORATE DEGREE

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The University of Twente is a leading research university focusing on technical developments and their impact on people and society. This is reflected in UT's extensive offerings of technology focused bachelor's, master's, and postdoctoral educational tracks. Our understanding of our world — including where we work or will work — has led to a unique vision for education: one that combines technology and engineering along with behavioural and social sciences. In this way, we are able to address complex issues never seen before by mankind; it takes creative, cross-disciplinary thinking to find such solutions. In one of these offerings, you can enhance your knowledge and skills in a two-year Research Programme known as an EngD (Engineering Doctorate) Degree.

Most relevant to advanced manufacturing, the Engineering Doctorate (EngD) programme in Energy and Process Technology focuses on science-based design of new processes, products, materials and/or prototypes. The developed products and processes are to be used in various branches of industry and technology, including nutrition, energy, transportation, packaging, membranes, water recovery, polymers, chemical processes, etc. The research-based design is driven by the industrial and societal needs. The developed technological innovations are swiftly, after the project finalisation, available on the market and can be used by the companies, engineers, and society.

The 2-years post-master EngD programme consists of the final design project, which is conducted in close contact and collaboration with industrial partners, and a tailor-made educational component to enhance the knowledge, design, and professional skills of the student. The in-depth technological research on the project is performed using state-of-the-art techniques and the

infrastructure of the university and the involved commercial partner. The high-tech facilities, laboratories, monitoring and measurement systems and sensors, numerical and analytical tools are widely used to provide top technological design.

In the parallel line to the investigated project, the EngD student follows courses on the master and post-master level (e.g., courses given by ISPT or J.M. Burgerscentrum) and participates in national and international symposia and conferences. Each student receives a package of specialised tailor-made courses specific to the design project subject and to the background, knowledge, and interest of the student. Professional and career development courses are included.

The technological design is done under the guidance of the experts in the field, i.e., the university professor and company supervisor. After successful completion of a EngD programme, the student is entitled to use the academic degree of Engineering Doctorate (EngD). ■

More information about the programme can be found on:

<https://www.utwente.nl/en/education/tgs/prospective-candidates/engd/programmes/energy-and-process-technology/>