

Admission

The Pharmaceutical Design and Engineering degree brings together students from a wide range of different backgrounds.

To be admitted to the programme, you need to have a bachelor degree that includes courses in the following disciplines:

- General Chemistry (Analytical and Physical Chemistry)
- Organic Chemistry
- Mathematics
- Biochemistry
- Molecular Biology



Website

www.dtu.dk
www.dtu.dk/English/education/MSc_Programs

Questions

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Pharmaceutical Design and Engineering

Master (2 years)



One master programme - a lot of opportunities

Do you want to design efficient processes for pharma and biopharma production, using your knowledge of chemical engineering, process design and fermentation technology? Do you want to know about the economics behind large scale production of drugs?

Or do you want to apply your deep knowledge of high throughput technology, assay technology, and cell biology to identify new drug leads quickly and efficiently to start up a new development line?

What the pharma industry requires

The programme is designed to give you the exact professional competencies that the pharmaceutical industry needs.

Pharmaceutical Design and engineering gives you in-depth knowledge of:

- Cell biology
- Microbiology
- Disease development
- Assay technology
- Bioinformatics
- Drug delivery systems
- Vaccine development



The programme uniquely combines in-depth expertise in a specific stage of the industrial pharmaceutical drug development chain with broad knowledge of the entire pharmaceutical development process - from discovery and development to production, including preclinical and clinical stages, patenting, licensing and marketing.

You will learn how to communicate complex project outcomes efficiently, how to identify and present new ideas, and how to plan and lead research. By closely emulating the work environment in the pharma industry, the programme will provide you with the skills you need to take on managerial roles.

We bring together students from different backgrounds, and individual study plans are suggested in order to bring each individual student up to par in both life science and chemistry.

“...companies provide students with real-life scenarios and case studies...”

Ready for your professional life

Using the latest educational approaches, DTU's Pharmaceutical Design and Engineering programme incorporates a large amount of project-based learning. Your technical and natural science competencies will be put to practical use solving cases from the pharmaceutical industry. A number of external companies suggest specific challenges and problems that are used as real-life case studies in the programme.

Working closely with pharmaceutical companies gives you hands-on experience of the issues facing the industry. At the same time, you will also develop your professional skills and competencies. Real-life experience, coupled with the programme's engineering approach to drug development, provides you with the necessary know-how to take up employment as soon as you graduate.

