**The specialisation in Databases enables you to:**

* structure and model data in order to design databases
* implement database designs, and program complex database queries, triggers, and stored procedures, in widely used relational DBMSs
* perform database tuning for improving the efficiency of large-scale databases
* understand the concept of non-relational data (XML, geographic, textual) and use of simple indexing techniques and query languages for such data
* architect large scale distributed database systems
* perform large-scale data analysis and data mining.

**Career prospects**

The skills you learn in this specialisation are desirably for main stream jobs like software developer and database architect, in domains like business software, administrative software and web applications.

**Prerequisites**

The are no formal requirements for the specialisation, but students are expected to know foundational programming skills:

If you do not have knowledge within this area before starting the specialisation, you can choose [Introductory Programming](https://mit.itu.dk/ucs/cb/course.sml?course_id=1921933&mode=search&goto=1494226494.000), [Programming Workshop](https://mit.itu.dk/ucs/cb/course.sml?course_id=1921941&mode=search&goto=1494226494.000) and/or [Foundations of Computing - Algorithms and Data Structures](https://mit.itu.dk/ucs/cb/course.sml?course_id=1885039&mode=search&goto=1479840280.000) as one of your electives on the first or second semester.

**Project supervisors**

The following members of faculty have teaching or research experience that relate to the specialisation. You can contact them if you want to pursue the specialisation's topic area in a project or in your thesis.

* [Philippe Bonnet](http://www.itu.dk/people/phbo/)
* [Rasmus Pagh](http://www.itu.dk/people/pagh/)
* [Carsten Schürmann](https://pure.itu.dk/portal/en/persons/carsten-schurmann(1313519f-2074-41d6-8b79-589648e37211).html)

**Specialisation contact person**

[Philippe Bonnet](http://www.itu.dk/people/phbo/)

Contact Philippe if you want to know more about the specialisation contents or its prerequisites.