BUILDING 220

DTU BIOSUSTAIN

NOVO NORDISK FOUNDATION CENTER FOR BIOSUSTAINABILITY

DTU Biosustain Building 220

Area
12.500 m²

Budget
315 mio. kr.

Building period
2015-2016

Architect
Vilhelm Lauritzen Architects

Engineer
MOE

Landscaping
GHB

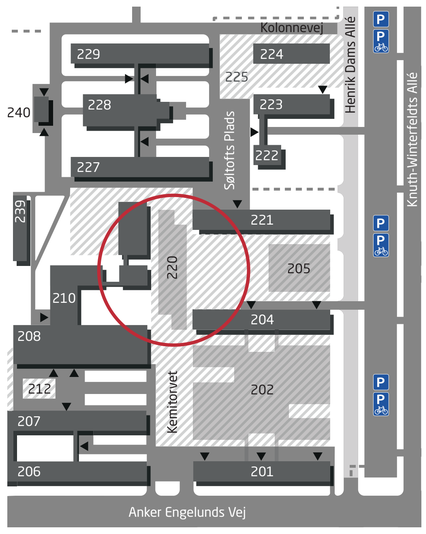
Contractor
BAM Danmark

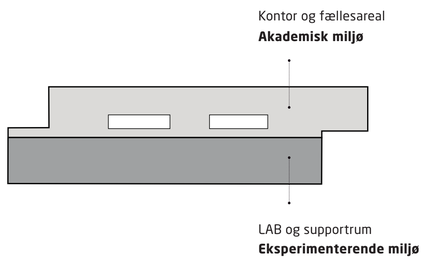
Building 220 is a new interpretation of DTU's traditional buildings that combines a highly specialized research centre with DTU's university environment.

Building 220 will support world-leading biosustainability research and be the new home for DTU Biosustain – Novo Nordisk Foundation Center for Biosustainability (CFB).

The flexible six-floor building–boasting an area of 12,500 m² – will be the highest at DTU Lyngby Campus.

The research centre will be centrally located next to the major Life Science & Bioengineering complex, and will include state-of-the art research laboratories for biotechnological research in addition to meeting and office facilities as well as common areas for DTU.





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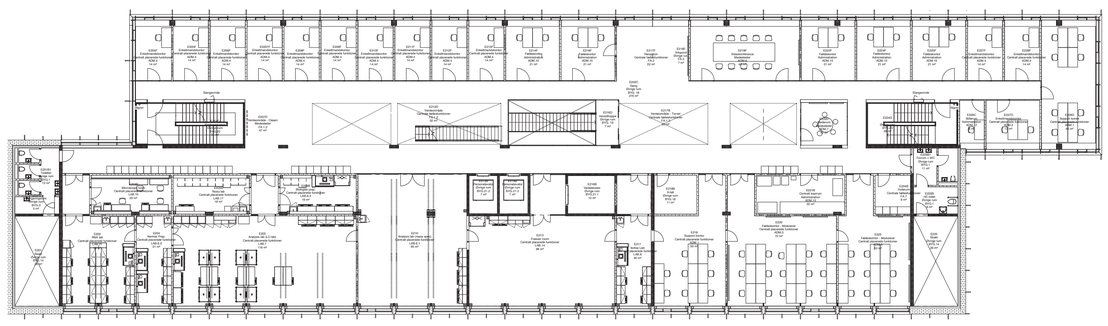

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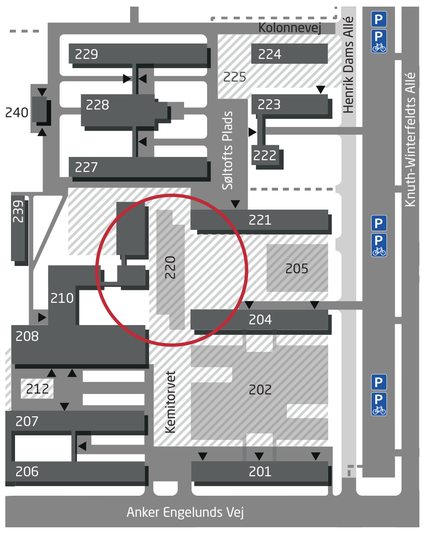
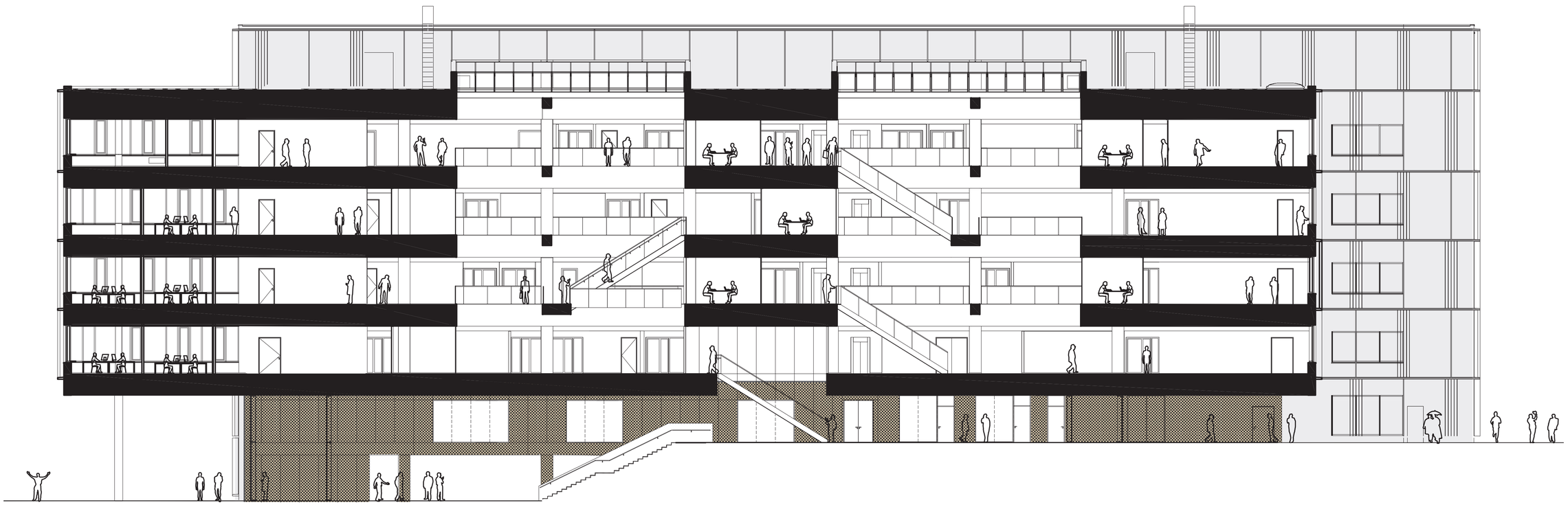


Future-proof laboratories

Building 220 is a specialized research building and a new interpretation of DTU's traditional buildings. The result is a six-floor split-level building with an open main pedestrian thoroughfare, high open atriums, and secured GMO class laboratories. Doors and hallways have been made extra wide to accommodate new robots and machines that will keep the centre updated with the latest technology. By future-proofing the laboratories, they can be easily adapted to the need for new machines, new partitions, and a general flow across laboratories.



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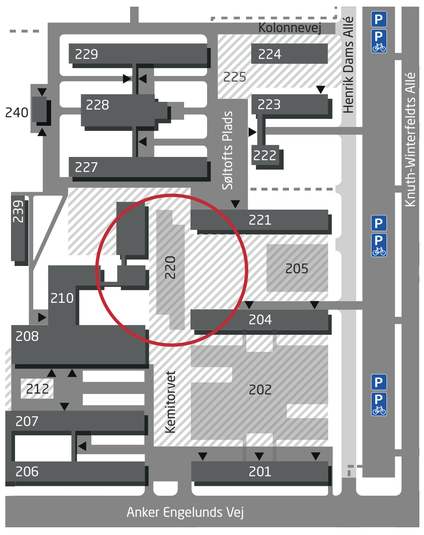
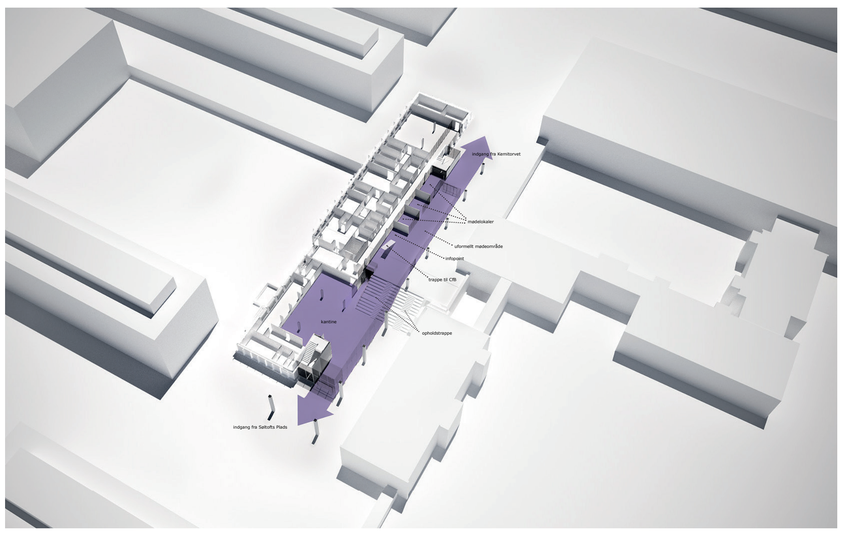
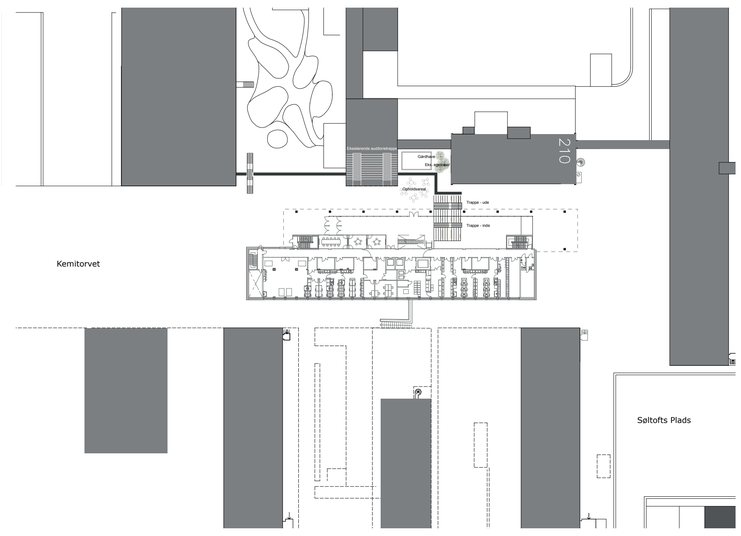
Visibility and coherence

Seen in a larger scale, the building must house and boost research for the centre's more than 200 employees and partners. At the same time, the building must give something back to DTU Lyngby Campus. Located in a dense area of Quadrant 2, the building's open interior thoroughfare connects Kemitorvet and Søltoft Plads, spanning a landscape-level change which offers interesting spaciousness in the interior pedestrian thoroughfare. The canteen and common areas for DTU are located on the ground floor, and the administration and research facilities for CFB are placed on the upper floors of the building.

Arriving from Kemitorvet, you enter the interior pedestrian thoroughfare with visual contact to CFB. From the thoroughfare, you are led to the canteen via a wide staircase which follows the landscape level. At the foot of the stairs, the building opens up in a distinctive room with double-height floors and a view of the research environment.







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About DTU Biosustain – Novo Nordisk Foundation Center for Biosustainability

The mission of the Novo Nordisk Foundation Center for Biosustainability, DTU - or simply DTU Biosustain – is to design, construct, and test cell factories for the biomanufactoring of a wide range of chemical and protein based products, as a contribution to building more sustainable lifestyles. The center is based upon a 10-year grant of 1.1 billion DKK to DTU from the Novo Nordisk Foundation and it has been in operation since 2011.

The centre will focus on the development and expansion of the concept of cell factories through basic research in microbial cell physiology and metabolic engineering powered by an integration of state-of-the-art high throughput technologies with genome-scale models.