

University
of Oxford

Big Data Institute
Innovation Building

NDM Research
Building

Kennedy Institute
of Rheumatology

Oxford Molecular
Pathology Institute

Old Road Campus
Research Building

make



Foreword

Make's relationship with University of Oxford began in 2005, when we teamed up with Nightingale Associates to design a new facility for Oxford's world-leading cancer research teams. The result, the Old Road Campus Research Building, is designed to strengthen links between the university's medical research and the clinical treatment available at local hospitals.

In the years since, we've delivered another five hubs for this prestigious institution, including its first BREEAM 'Outstanding' building. With their high-spec laboratories and collaborative workspaces, our structures accommodate scientific analysis, education, investment and more. It's been a pleasure working with a range of university representatives during this time and seeing Oxford grow in both form and vision.

This book tells the story of each building we've designed for the university, offering a glimpse of the imagination, detail and diligence that have gone into each. Assembling it has been a rewarding experience – a chance to reflect on the journey of our relationship with the university and anticipate its evolution in the years to come.

A handwritten signature in black ink, appearing to read 'Ken Shuttleworth', with a long horizontal flourish extending to the right.

Ken Shuttleworth
Founding Director, Make Architects

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Make Architects



Make is a different kind of architecture practice. Founded by Ken Shuttleworth in 2004, we're an employee-owned firm pursuing a democratic design process that values everyone's input. Today we have more than 150 Makers in London, Hong Kong and Sydney providing architecture, interior and urban design services from concept to completion.

Our education portfolio includes higher education facilities, campus masterplans, research institutions, secondary schools and student residences. We design each scheme to respond to its environment, reflect the associated institution's reputation and goals, and provide an inspiring environment for users, whether they're students, teachers, researchers, academics or staff.

We've worked with some of the world's leading institutions to create spaces that stimulate students, advance groundbreaking research and underpin new partnerships. In the past 15 years we've delivered six buildings for University of Oxford as part of an ongoing £117 million campus masterplan. These hubs feature top-quality spaces to work, learn, study and socialise. Their considered design helps drive forward investment and research in one of the world's leading academic institutions.

¹ (Opposite, clockwise from top left) Teaching and Learning Hub, The Barn, University Square Stratford, The Gateway Building

Old Road Campus



South Parks Road Science Campus



- Key**
- | | | | | | |
|---|---------------------|---|-----------------------------------|---|--------------------------------------|
| 1 | Big Data Institute | 3 | NDM Research Building | 5 | Oxford Molecular Pathology Institute |
| 2 | Innovation Building | 4 | Kennedy Institute of Rheumatology | 6 | Old Road Campus Research Building |



- Key**
- A Old Road Campus
 - B South Parks Road Science Campus

Big Data Institute

CAMPUS
Old Road

BUILT
2017

UNIVERSITY
REPRESENTATIVES
Eveline James, Richard Jones,
Mike Wigg

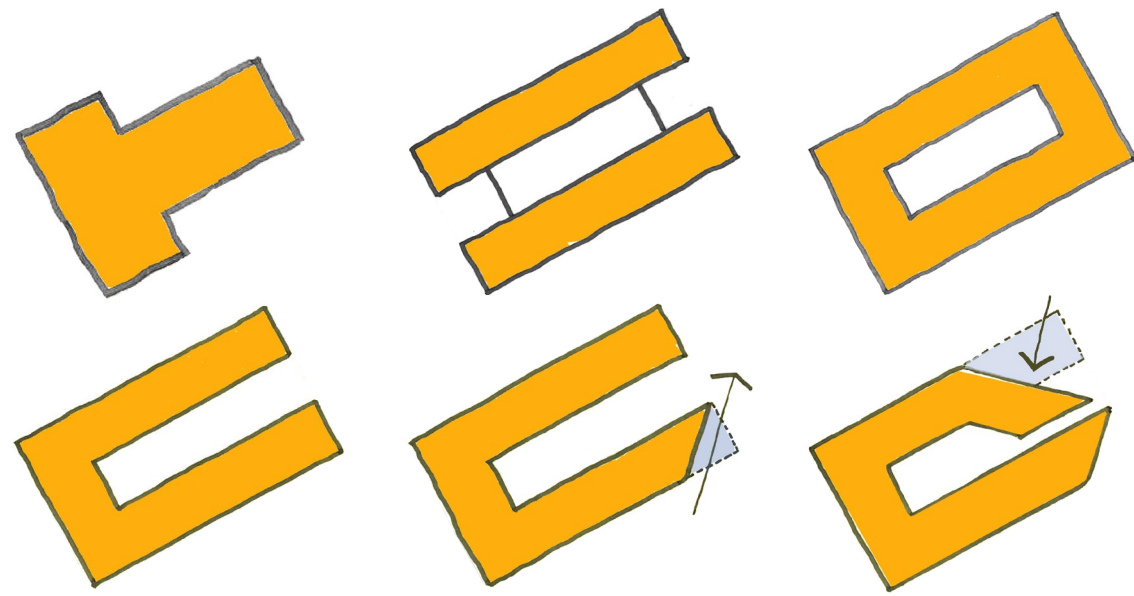
CONTRACTOR
Mace

DESIGN TEAM
Architect: Make
Project manager: CPC
Building services:
Long and Partners, RES
Structural engineer:
Peter Brett Associates
Cost consultant: Arcadis

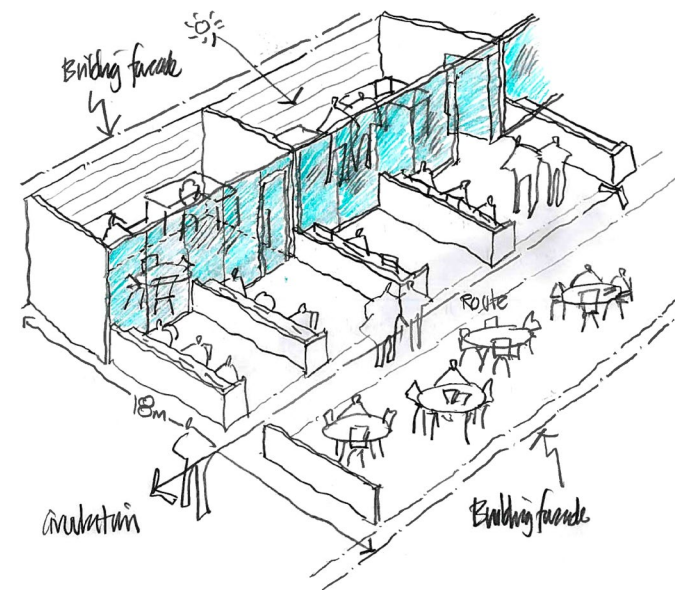
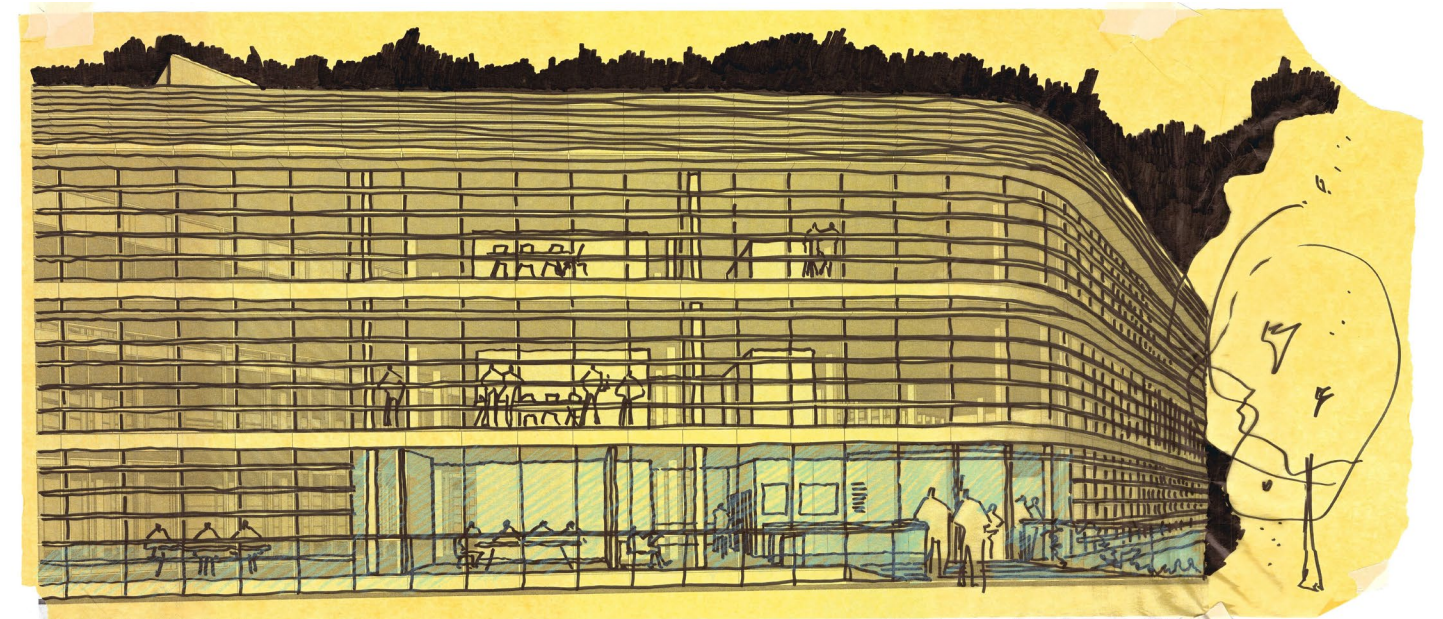
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Nicolas Stamford,
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The Big Data Institute is an interactive workspace for researchers to analyse complex biomedical information. With its elegant architecture and considered material palette, the RIBA Award-winning building unites the best of the traditional academic environment with the best of today's commercial workplace. Timber ribbons and a dramatic staircase recall the richness of Oxford's historical academic buildings, while white glass and metal accents express its digital and scientific ambitions.

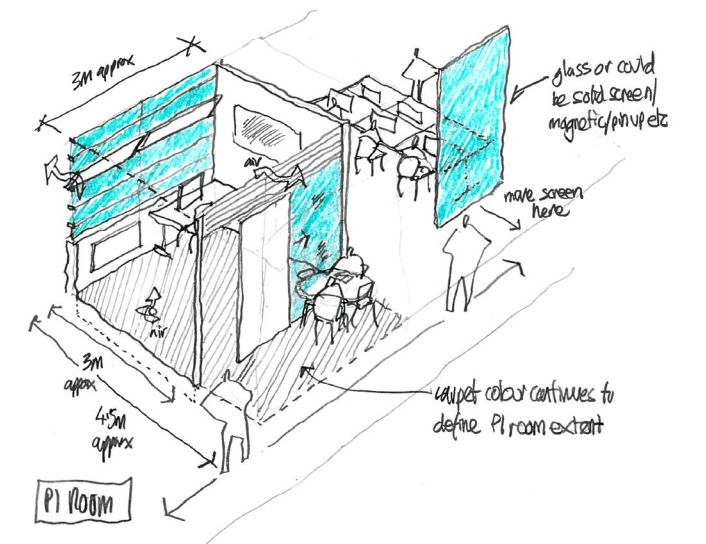




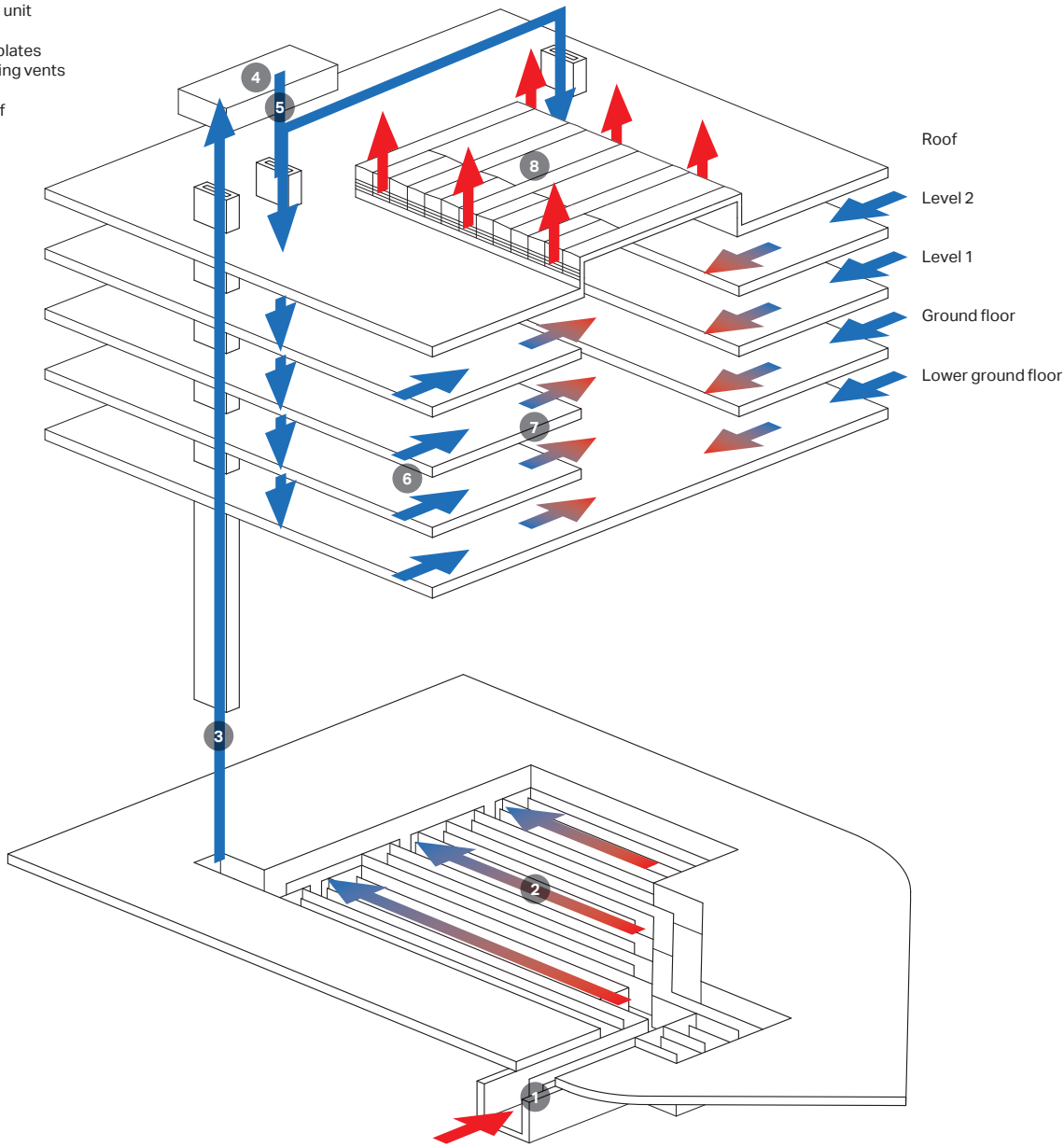
1 Diagrams showing the evolution of the building form. The U-shaped footprint provides a clear front and back, with a central atrium that offers strategic views through to the working areas surrounding it.



18m width with Pl/mtg+ breakout spaces....



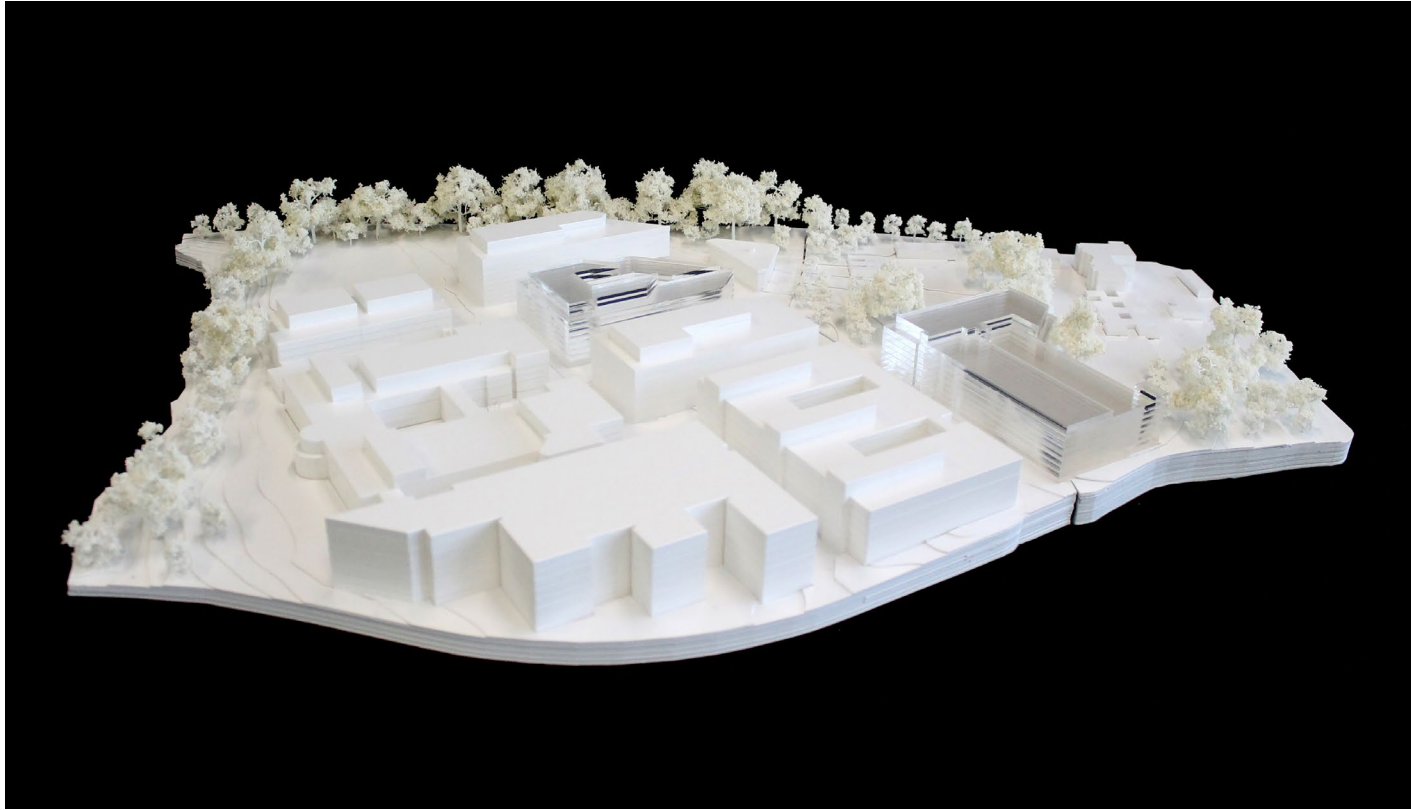
- Key**
- 1 Air inlet to labyrinth
 - 2 Air cooled in labyrinth
 - 3 Air rises to air handling unit
 - 4 Air conditioned
 - 5 Air distributed to floorplates
 - 6 Air goes through opening vents
 - 7 Air passes to atrium
 - 8 Air vented through roof



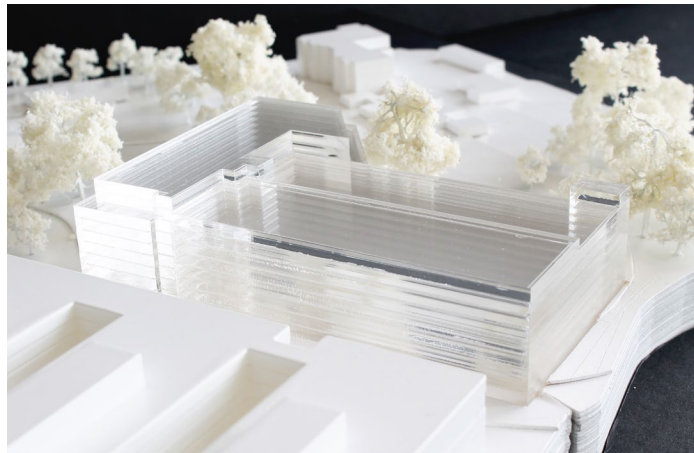
2 Diagram of the underground labyrinth, a fundamental part of the environmental strategy. The BDI is the first UK research building to use a labyrinth beneath the building for cooling, and achieved a BREEAM 'Outstanding' score of 86.5%.

- 3 The subterranean labyrinth under construction. The mechanism draws in air through the atrium lightwell and uses the thermal mass of the ground to cool it before circulating it to the main rooftop plant room. This air is then distributed via floor plenums and extracted via the atrium using the stack effect.

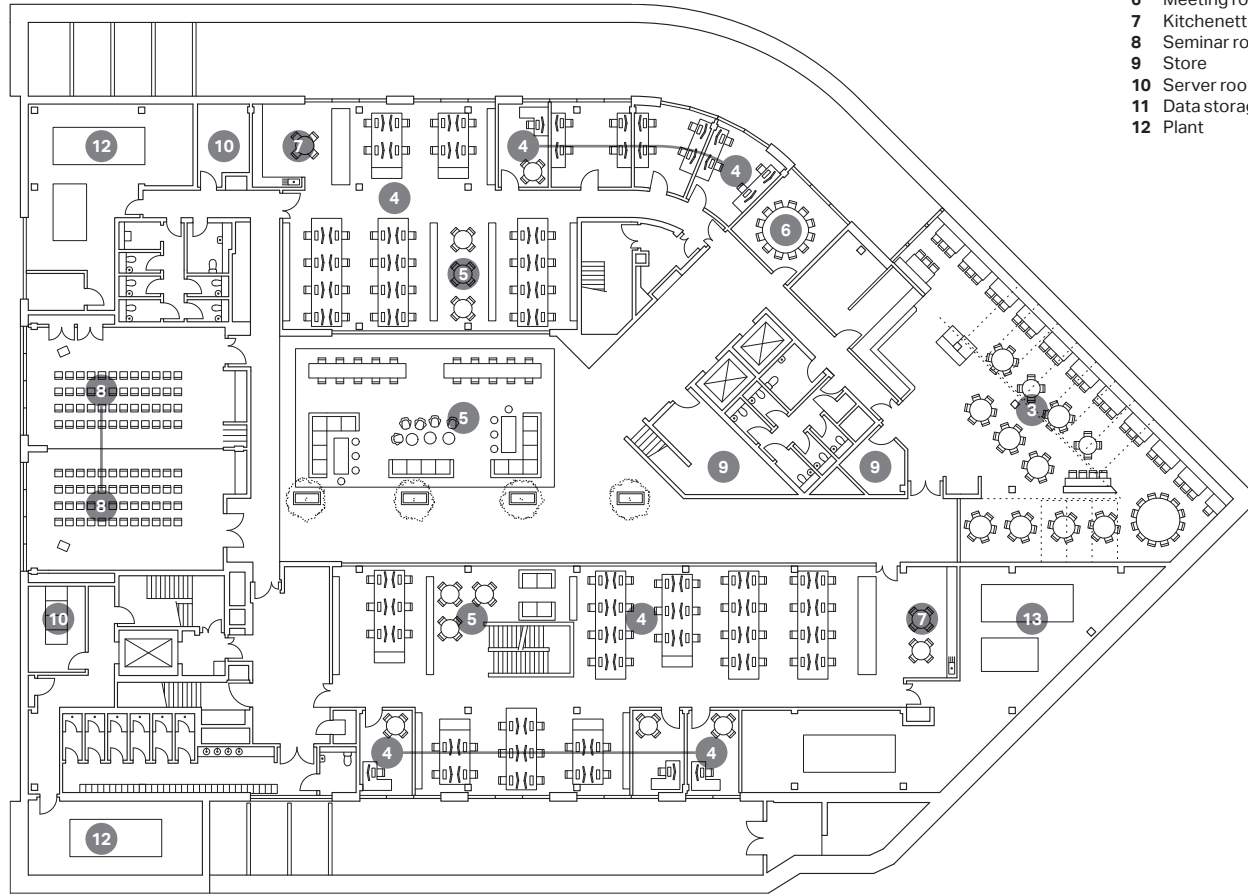




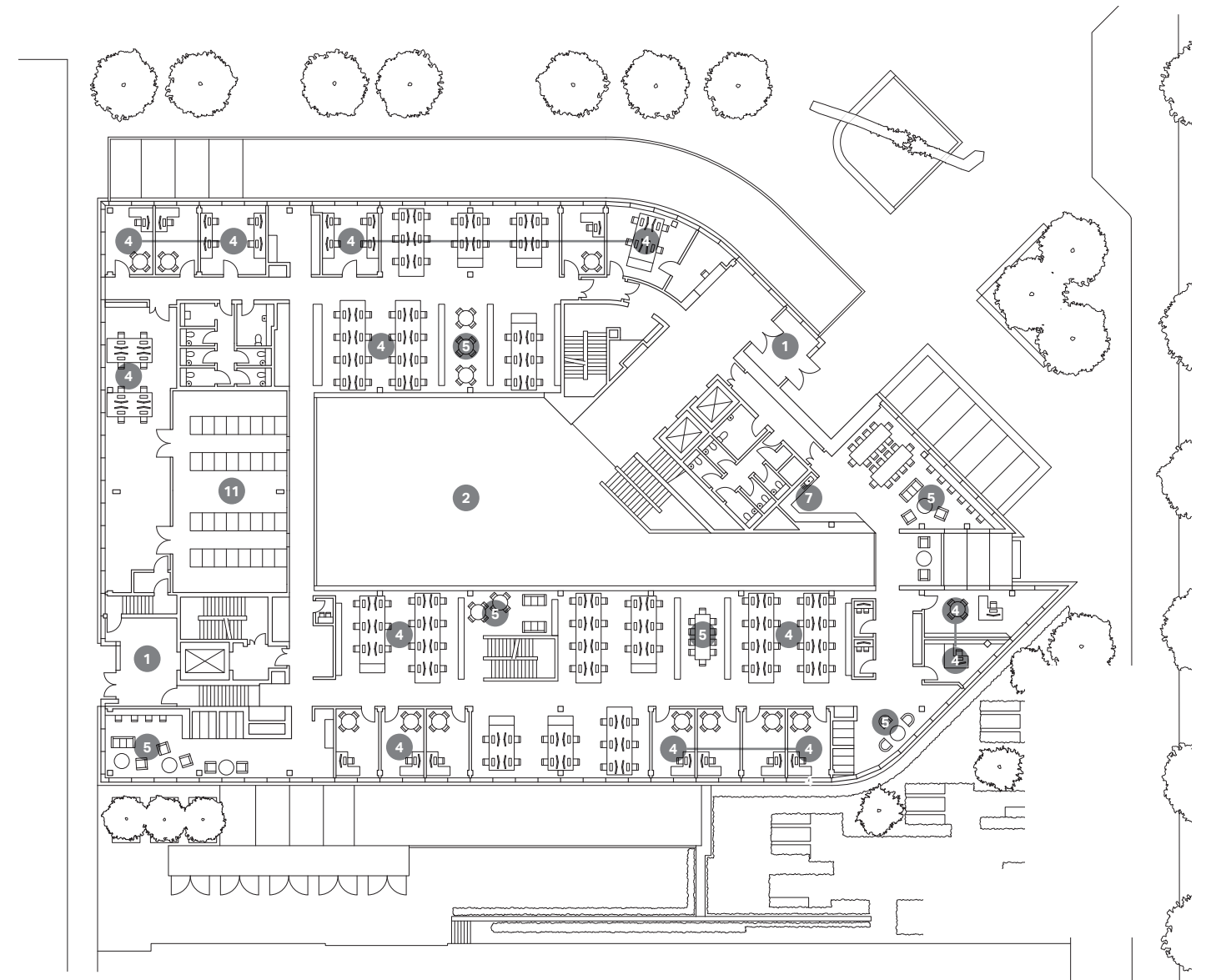
4 Masterplan model showing the Big Data Institute and the Innovation Building in the wider context of the Old Road Campus. The BDI's tapered prows allow views to and from the adjacent buildings on the campus, create a sense of arrival, and provide much-needed new amenity space on the campus.



- Key**
- 1 Entrance
 - 2 Atrium
 - 3 Café
 - 4 Office
 - 5 Breakout space
 - 6 Meeting room
 - 7 Kitchenette
 - 8 Seminar room
 - 9 Store
 - 10 Server room
 - 11 Data storage
 - 12 Plant



5 Lower ground floor plan as built. This space incorporates two seminar rooms with clerestory windows, and a server room with a lightwell and rooflight that provide a glimpse of the new public realm outside.



6 Ground floor plan as built. Each floor has a mix of perimeter cellular offices and generous open-plan spaces interspersed with social and breakout areas for different methods of collaboration and working.



7 Approach from the main road, with formal landscaping. The facade draws on the horizontal cladding of the neighbouring NDM Research Building, with a veil of grey polyester powder-coated aluminium bands and glazing.



8 South-east approach, where the articulation of the building form has enabled the inclusion of several informal planting areas.



- 9 Typical research spaces with a mix of open-plan working areas and cellular offices. A major component of the brief was providing visual connectivity and fostering personal interaction across the building's workspaces.
- 10 (Opposite) Atrium with natural light, feature stair and acoustic timber lining. The feature stair offers visual connectivity, aids circulation and animates the building across all four levels.



11 Main equipment room as seen from the atrium. The opaque white glass wall reveals shadows as people pass behind it.



12 Glimpse of the main equipment room with servers. The BDI processes and stores significant amounts of data on a daily basis, with its server room providing enough computing power for 600 trillion computations per second.



13 View of open-plan working spaces with cellular offices above. The atrium has acoustic timber lining to reduce noise transfer within the open-plan arrangement.



14 View of the server room from the atrium, with internal pedestrian bridges above linking different wings of the building.



15 Lively breakout spaces in use. The building features three different types of breakout space: lively, quiet and silent.

- 16 (Below) Open-plan offices with clear sightlines across the floor.
- 17 (Right) Quiet breakout space in use. The diverse blend of workspaces allows people to meet and interact in different environments.
- 18 (Below right) Silent breakout space on level 1.





19 Informal landscaped area to the north-east, with seating and planting.



20 Approach from south-east. The main roof plan has been located to the west to minimise impact on the campus 'street' and adjacent Old Road.



21 Julian Wild's 'Origin' sculpture at the north-east approach. The stainless steel artwork is the largest public sculpture in Oxford and is inspired by the groundbreaking research undertaken on the Old Road Campus.

Innovation Building

CAMPUS
Old Road

BUILT
2018

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Mike Wigg

CONTRACTOR
Mace

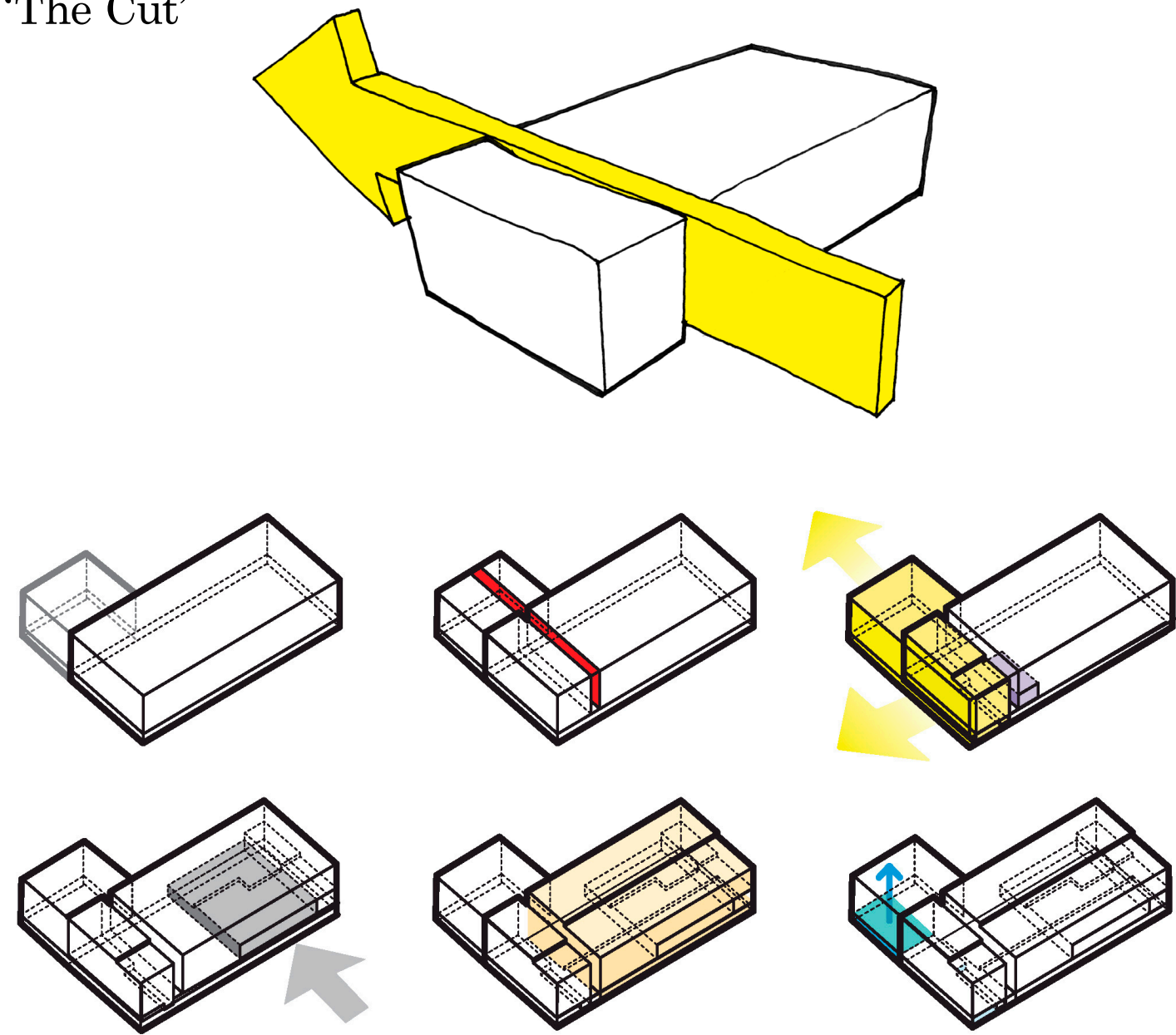
DESIGN TEAM
Architect: Make
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Structural engineer:
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Cost consultant: Arcadis

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The Innovation Building is home to commercial research laboratories and a biomedical start-up workspace known as the BioEscalator. It also provides a centralised car park for the estate and a distribution centre for campus-wide deliveries. The cladding design – inspired by the numerous trees on site – expresses and unifies these different uses. Internally, the building's different functions are separated by 'The Cut', a striking 5-storey atrium with acoustic European oak cladding and a full-height stair.

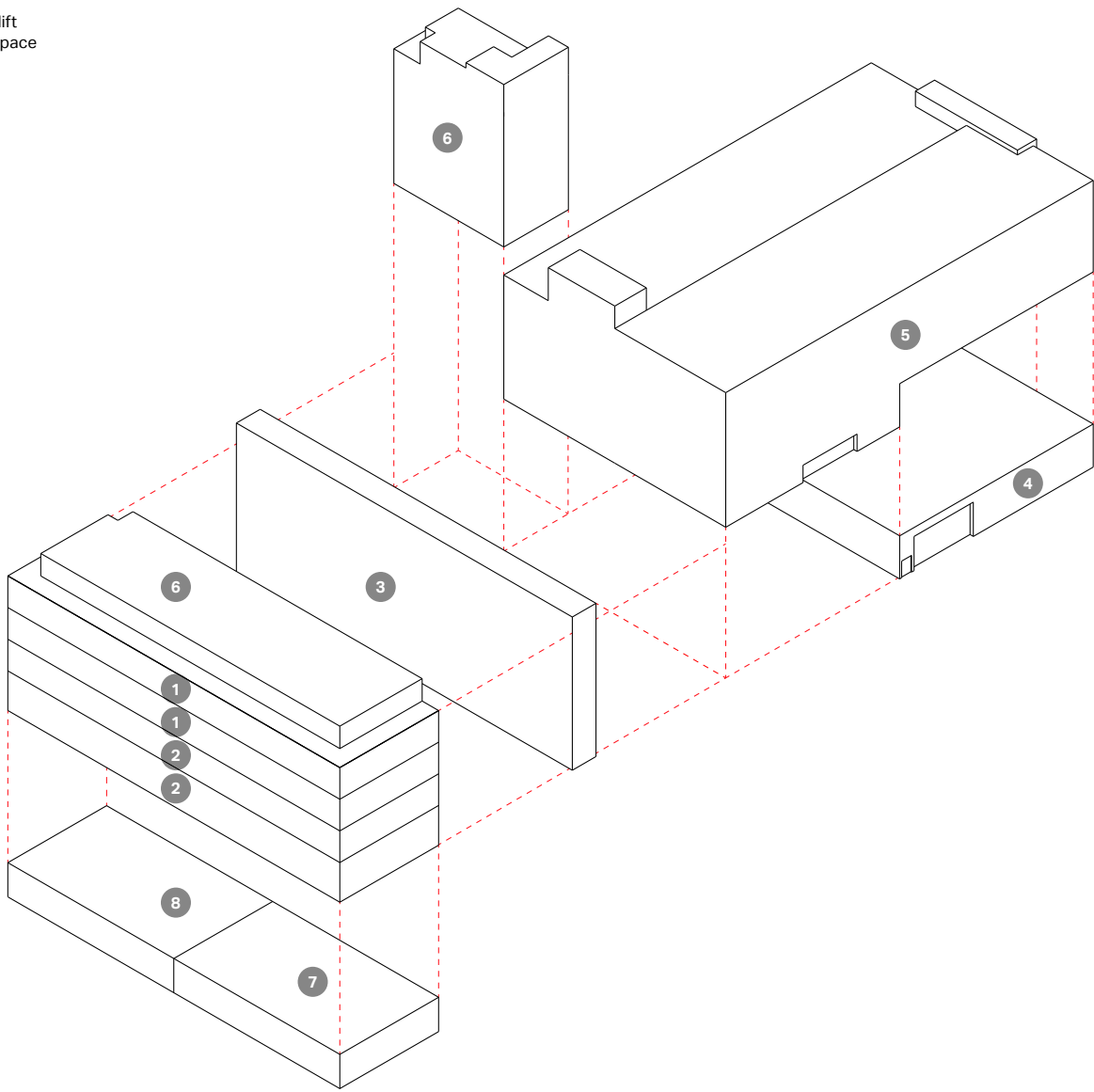


‘The Cut’

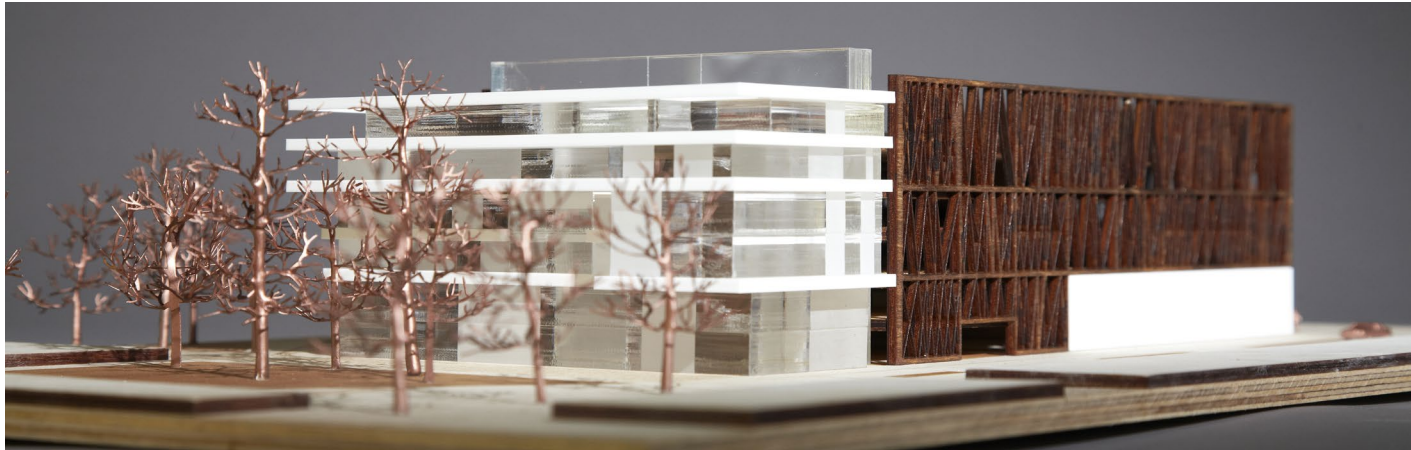


1 Diagrams indicating The Cut, which separates the medical research spaces from the car park. The building is designed to streamline distributions across the campus, reduce traffic and deliver new biomedical start-up workspace.

- Key
- 1 Lab spaces
 - 2 BioEscalator
 - 3 The Cut
 - 4 Distribution centre
 - 5 Parking
 - 6 Stairs and lift
 - 7 Teaching space
 - 8 Plant

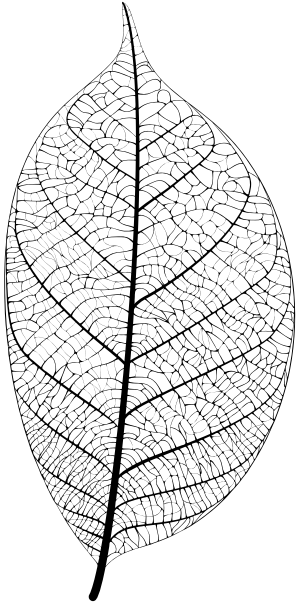


2 Stage C composition explosion. The BioEscalator floors deliver high-tech research facilities for start-up enterprises, with the additional two floors of laboratory space.

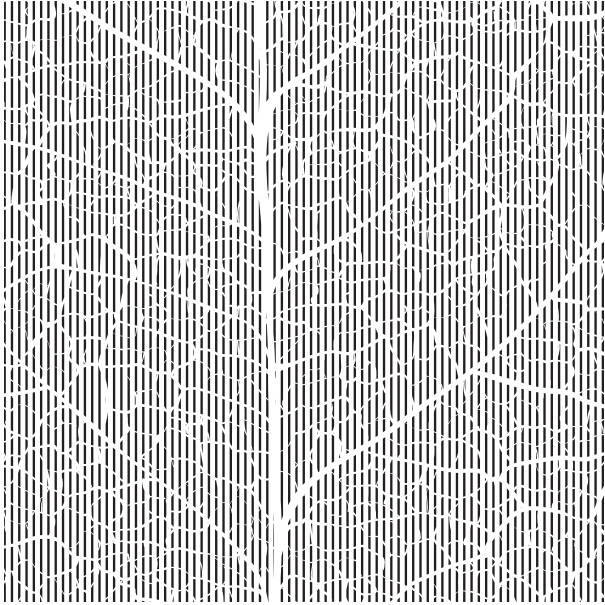


3 Original competition models showing the west elevation and facade concept. The building is unified with an external design inspired by the trees found around the site.

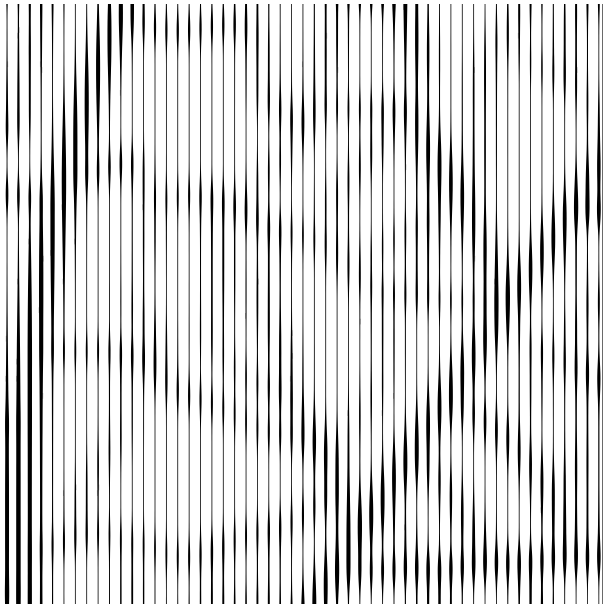
A



B



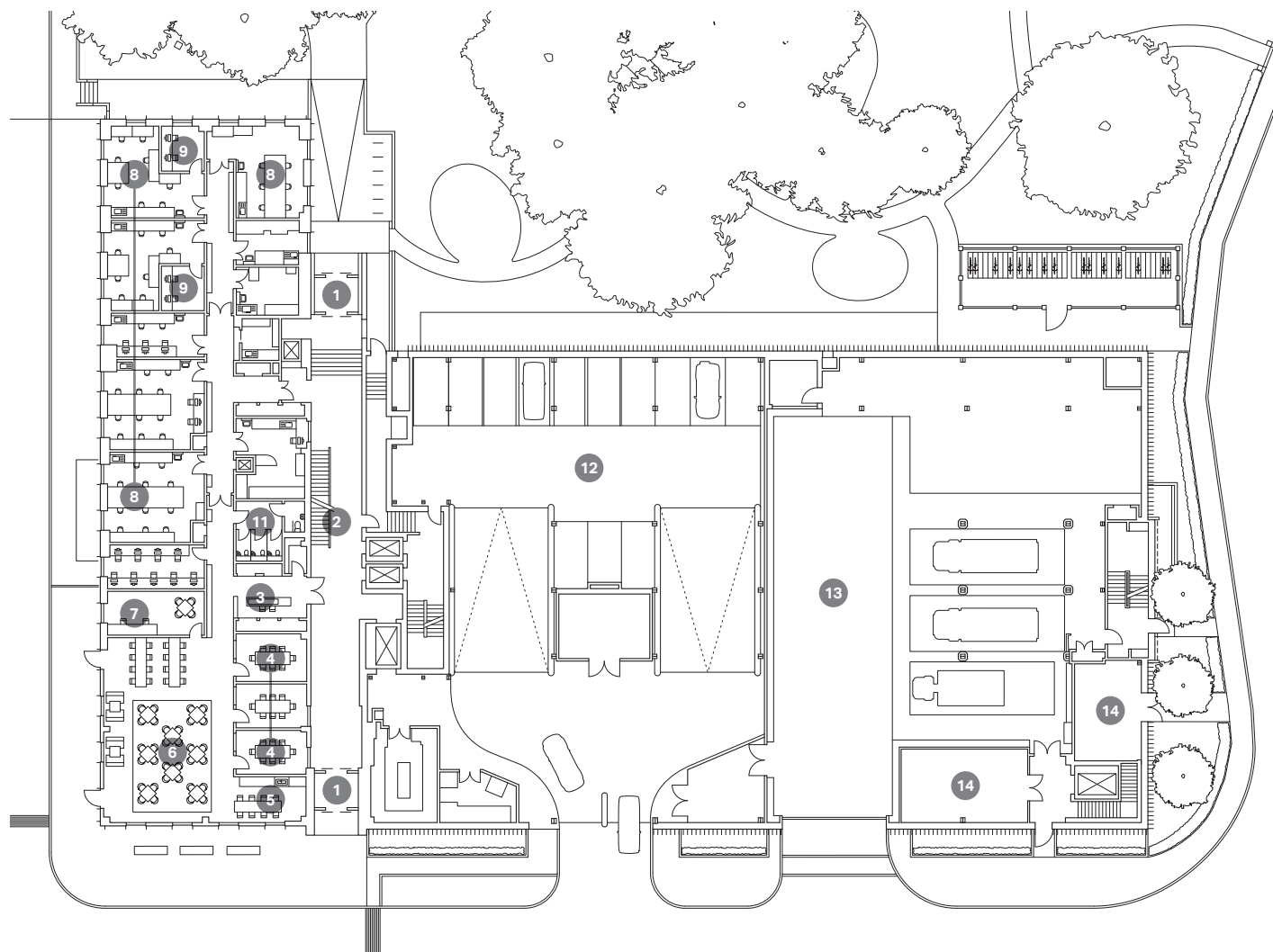
C



D

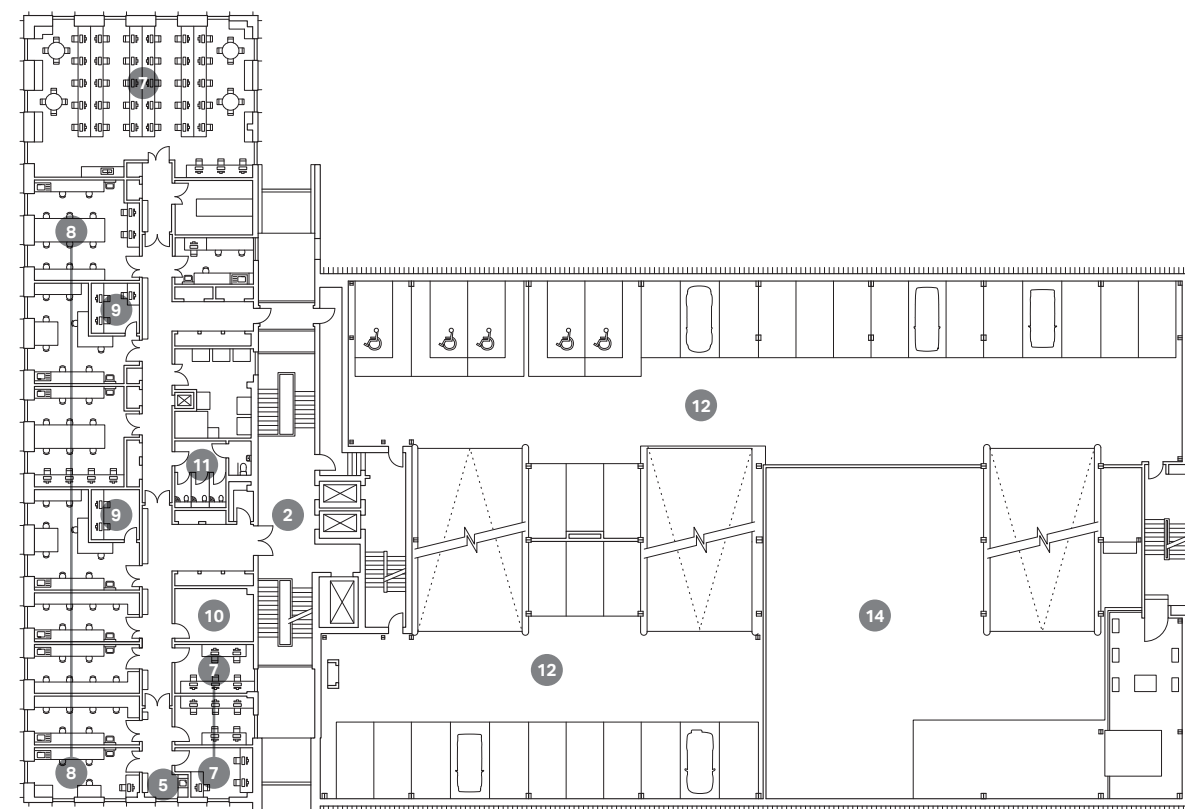


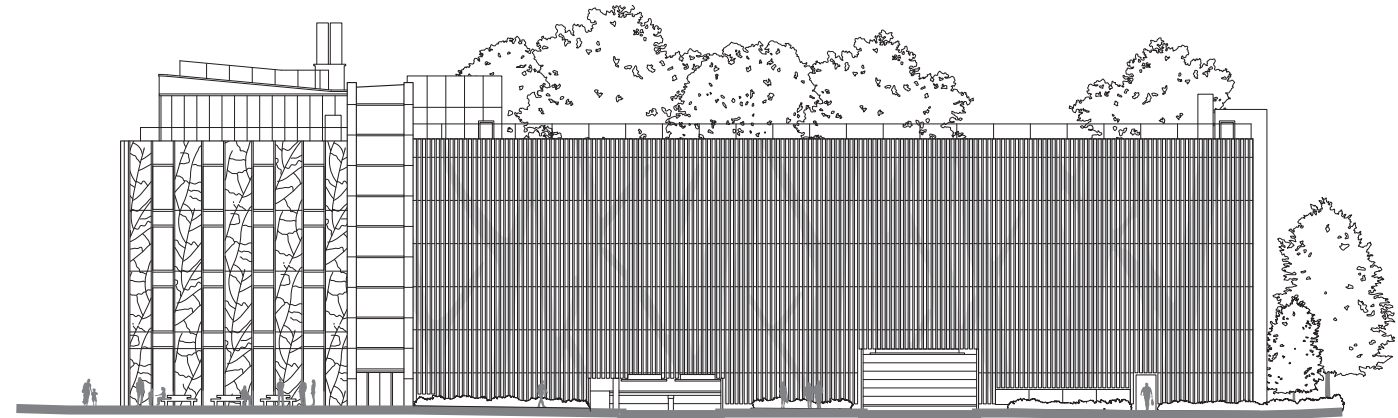
4 (A–D) Frit design iterations. The lab portion of the building uses four different details of the maple leaf screenprinted onto opaque back-painted unitised cladding. On the car park, aluminium fins twist to imitate a view through the trees.



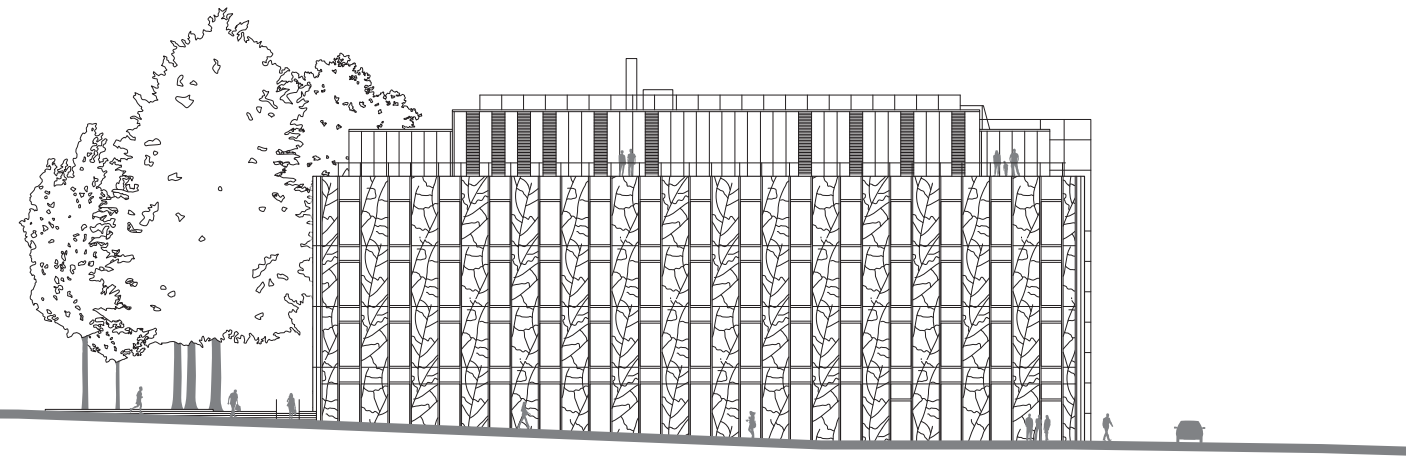
Key

- | | |
|-------------------|------------------------|
| 1 Entrance | 8 Laboratory |
| 2 Atrium | 9 Write-up space |
| 3 Reception | 10 Store |
| 4 Meeting rooms | 11 WCs |
| 5 Tea point | 12 Car park |
| 6 Start-up studio | 13 Distribution centre |
| 7 Office | 14 Plant |





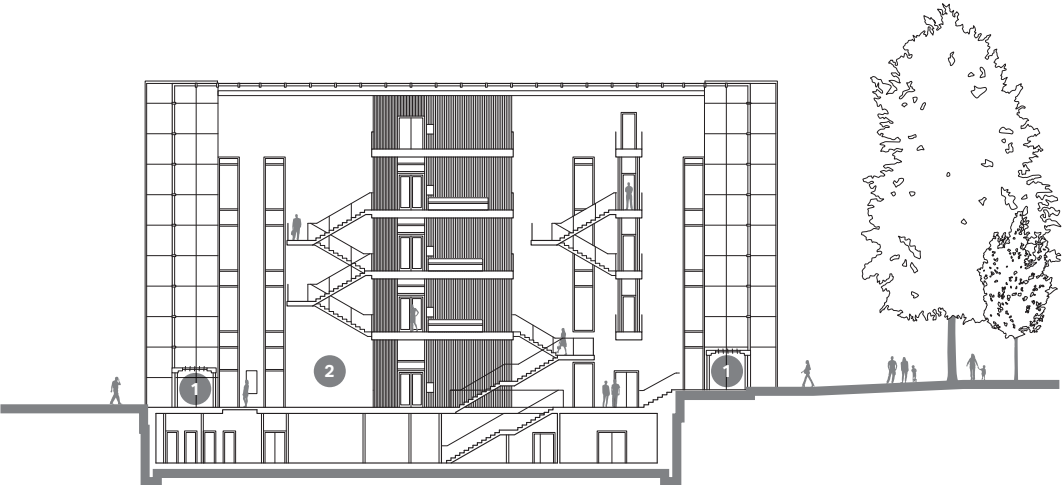
7 West elevation.



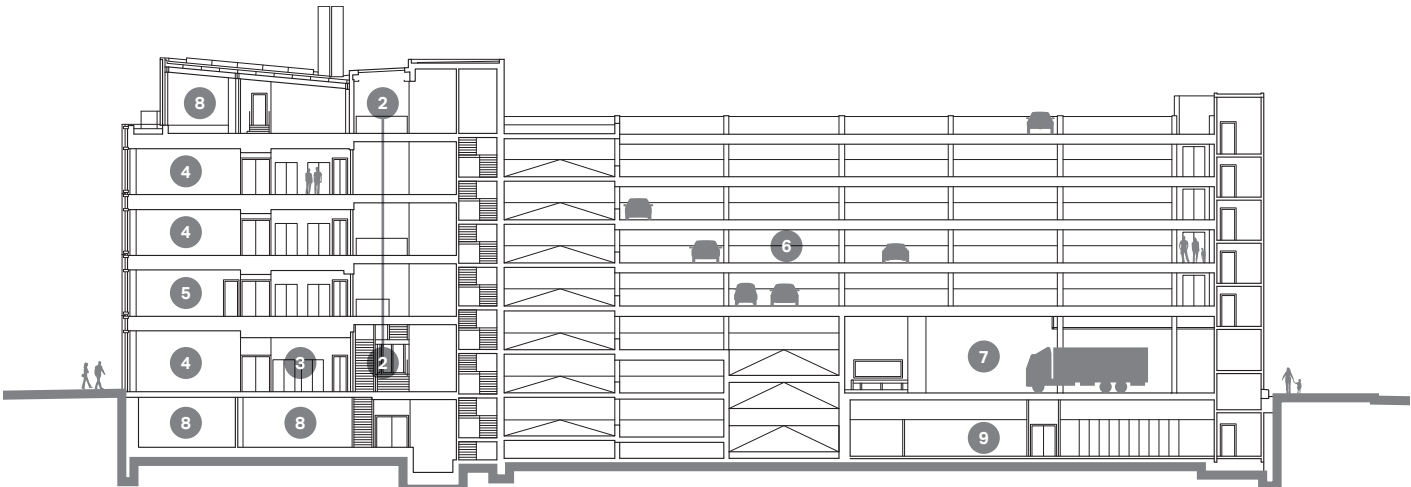
8 North elevation.



- Key**
- 1 Entrance
 - 2 Atrium
 - 3 Reception
 - 4 Office
 - 5 Laboratory
 - 6 Car park
 - 7 Distribution centre
 - 8 Plant
 - 9 Kitchen



9 Short section.



10 Long section.





11 North-east view showing the rear entrance to The Cut. The contrasting facade concepts catch the light and relate to other buildings on the campus, such as the Old Road Campus Research Building, which was also inspired by its leafy surroundings.



12 Main entrance/exit to the multi-storey car park. A digital script was used to define specific twists in the aluminium blades to give the appearance of tree silhouettes across the facade.



13 Main entrance with projecting fin that separates the building's different functions.



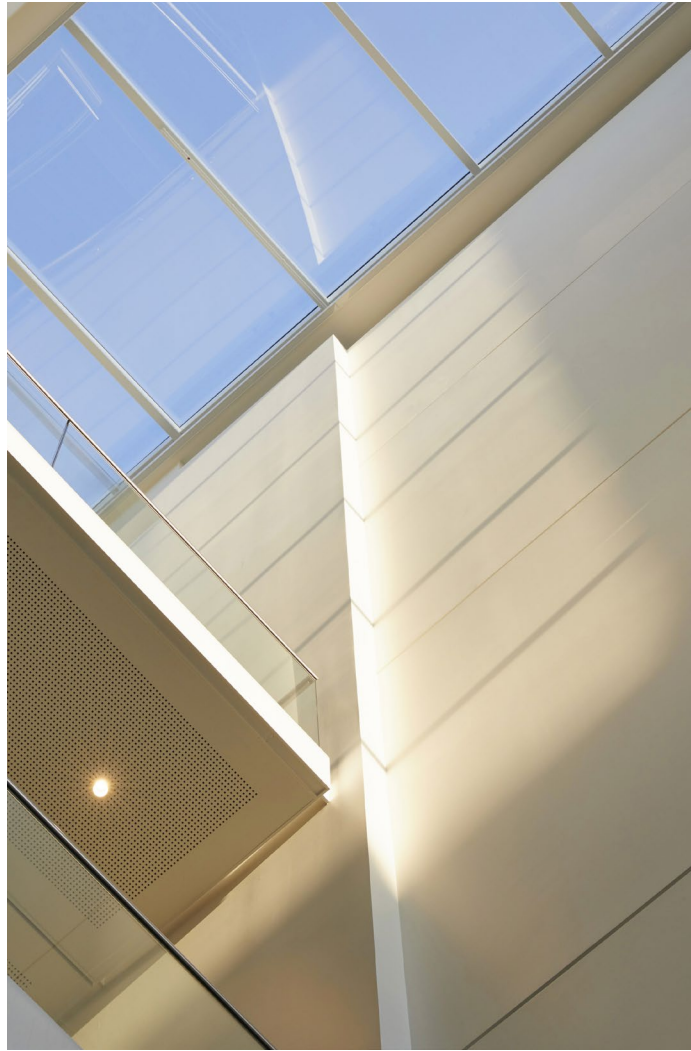
14 View inside The Cut. The 5-storey atrium features European Oak acoustic timber cladding and a full-height stair that links the functions and provides vertical access.



15 View of the level 3 bridge in The Cut.



16 (Above and right) Looking up into the top-lit atrium in The Cut.



17 (Opposite) View showing the contrast between the leaf pattern cladding of the research spaces and the twisted blades of the car park.



NDM Research Building

CAMPUS
Old Road

BUILT
2013

UNIVERSITY
REPRESENTATIVE
Eveline James, Mike Wigg

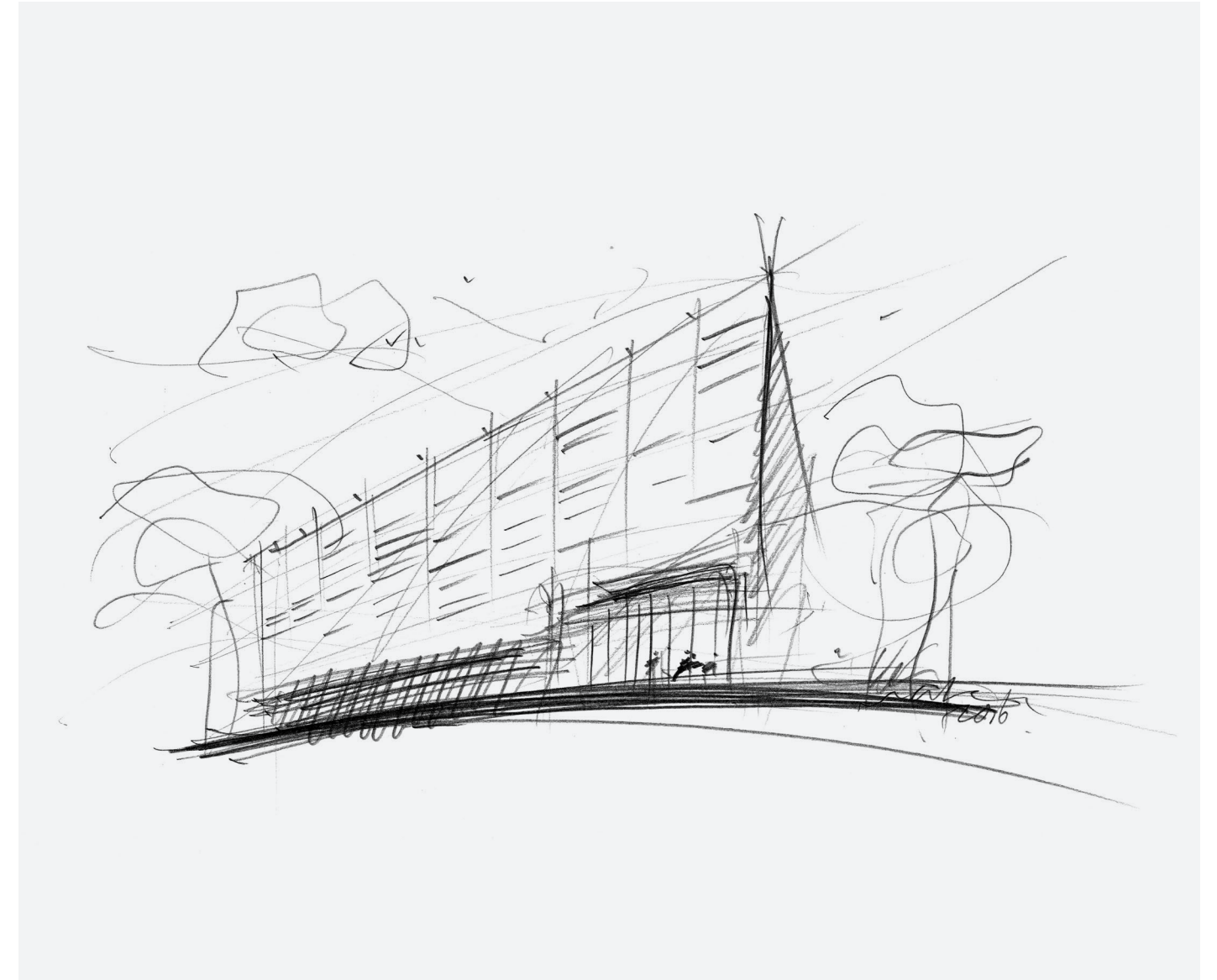
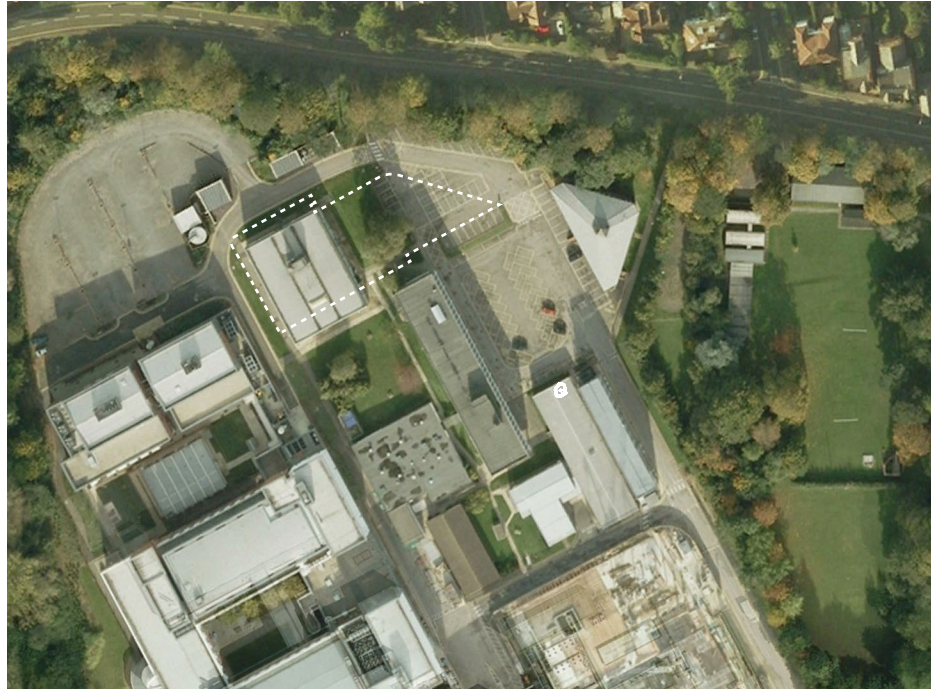
CONTRACTOR
Mace

DESIGN TEAM
Architect: Make
Project manager:
RB Development
Building services:
Long and Partners
Structural engineer:
Peter Brett Associates
Cost consultant: Arcadis

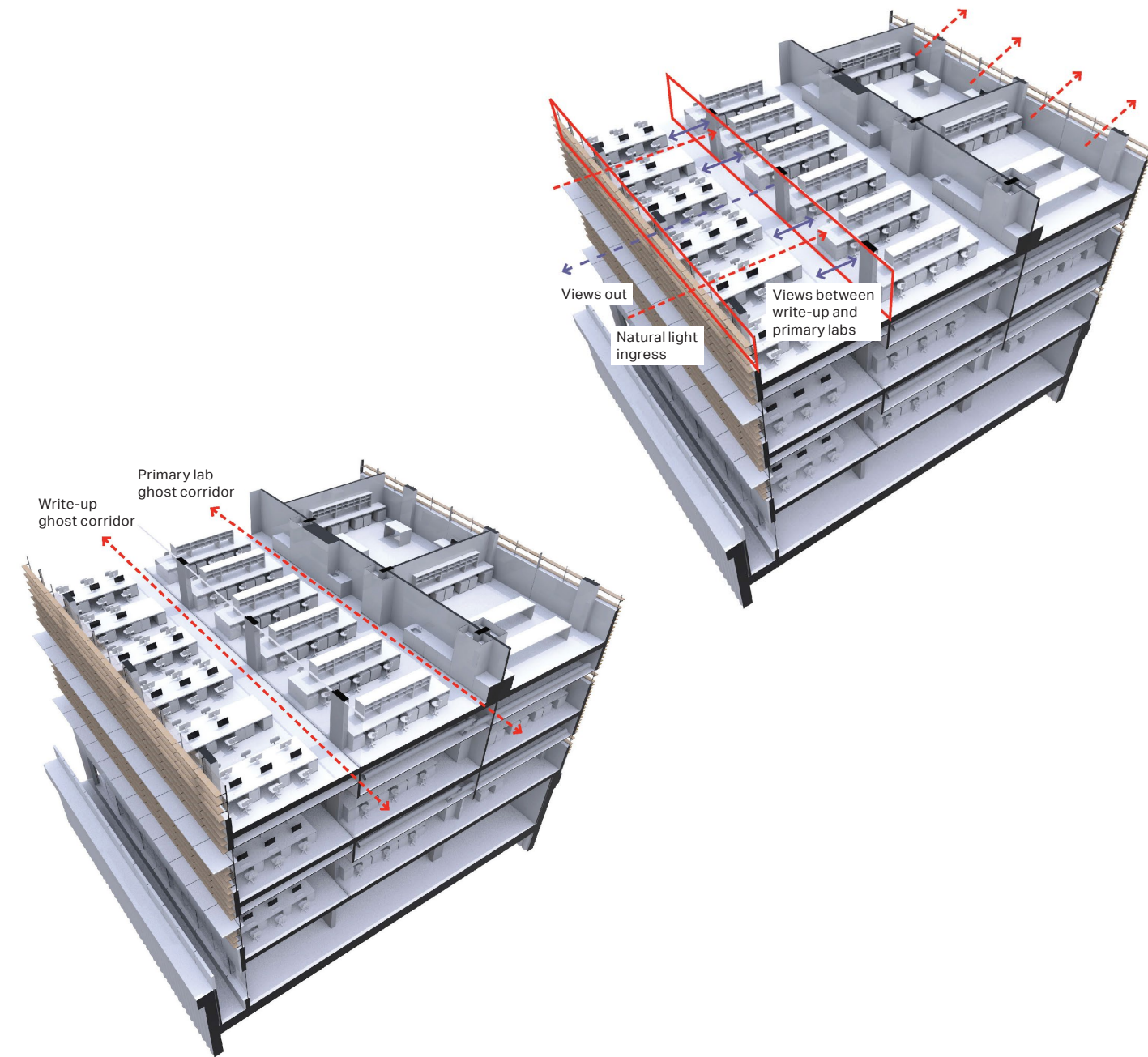
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James Roberts,
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Rebecca Thomas

Oxford's Nuffield Department of Medicine operates at the front lines of drug discovery for heart disease, cancer and HIV. Our design for the research facility reflects its prominent position at the head of the Old Road Campus while offering intimate spaces that establish a sense of ownership for the researchers who inhabit it. The building's welcoming, legible internal arrangement has improved collaboration and communication among researchers, facilitating pioneering research that benefits the global community.





1 Concept sketch of the building, which features a tapering prow and horizontal slot windows. It sits adjacent to two other medical research facilities designed by Make.

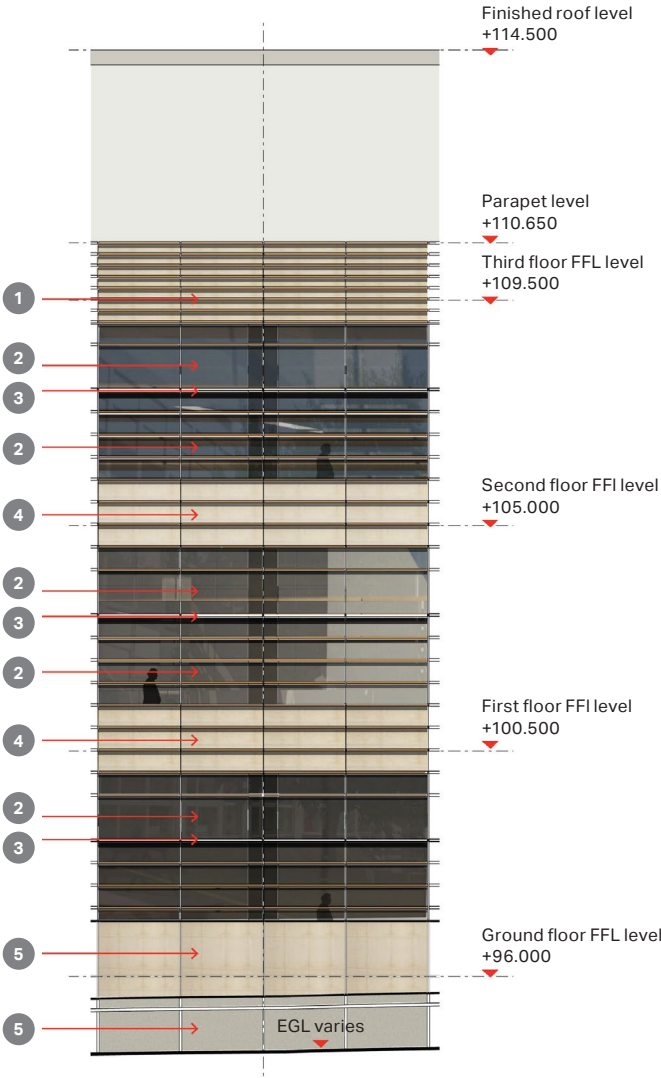


2 Diagrams of circulation showing visual and physical connections between different workspaces. The aim was to establish a sense of connectivity that would improve collaboration and communication among occupants.

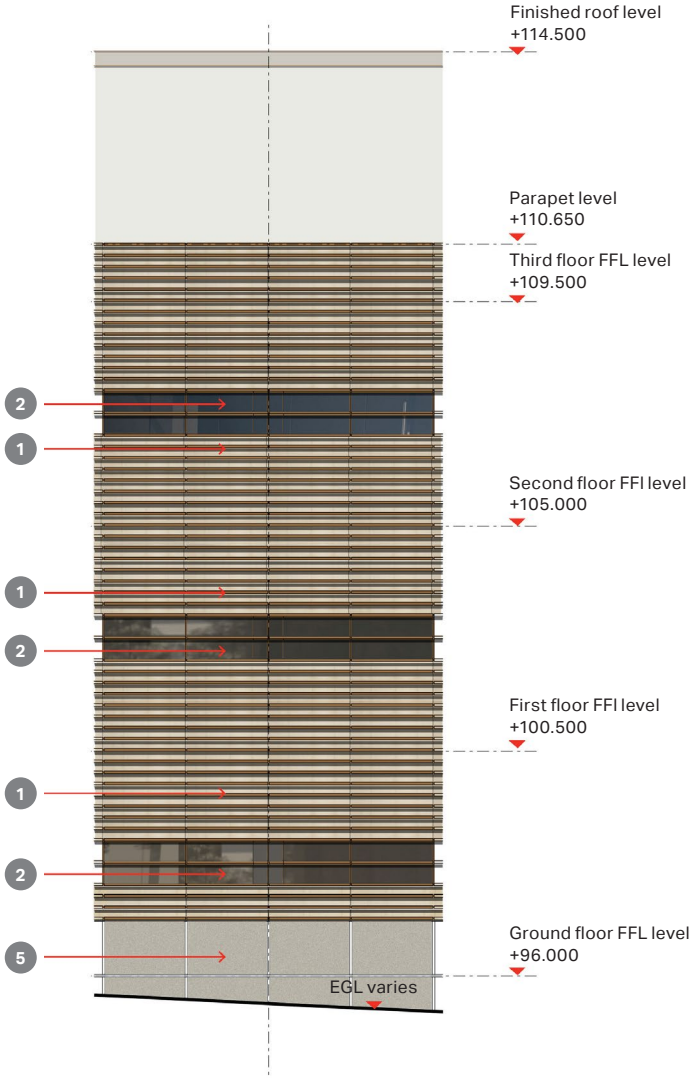


3 Section showing the extent of timber cladding in the atrium and staircase. The interior spaces have been crafted to create an intimate scale and establish a sense of ownership among the research groups that inhabit it.

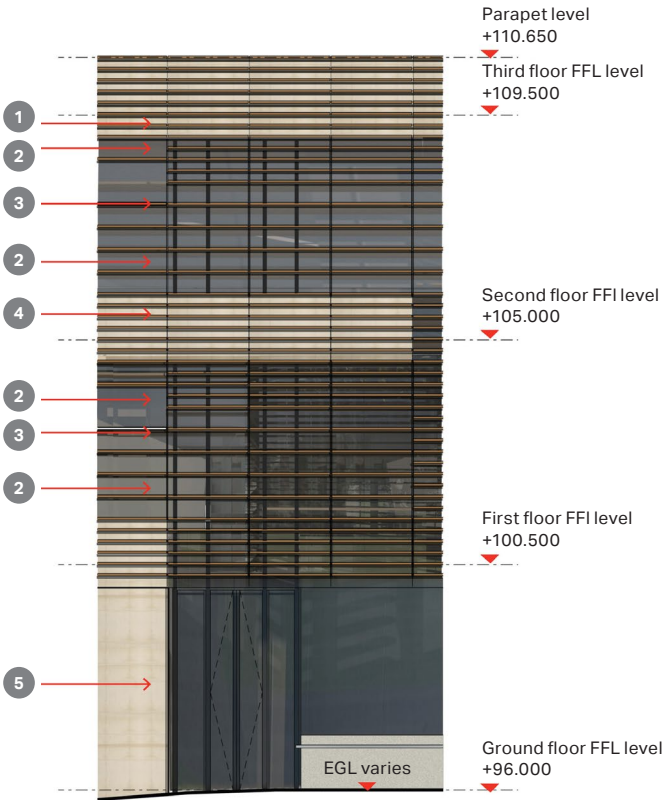
Typical facade bay A



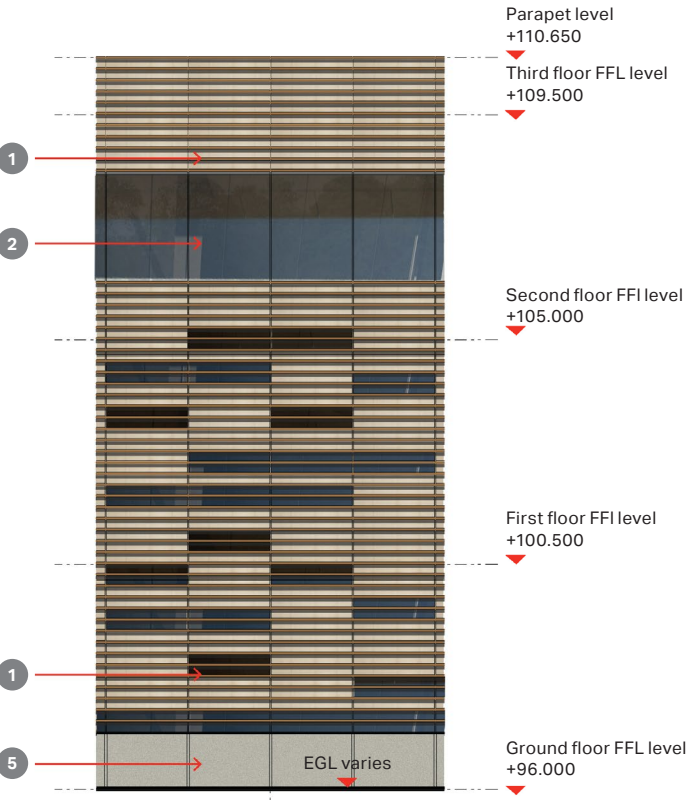
Typical facade bay B



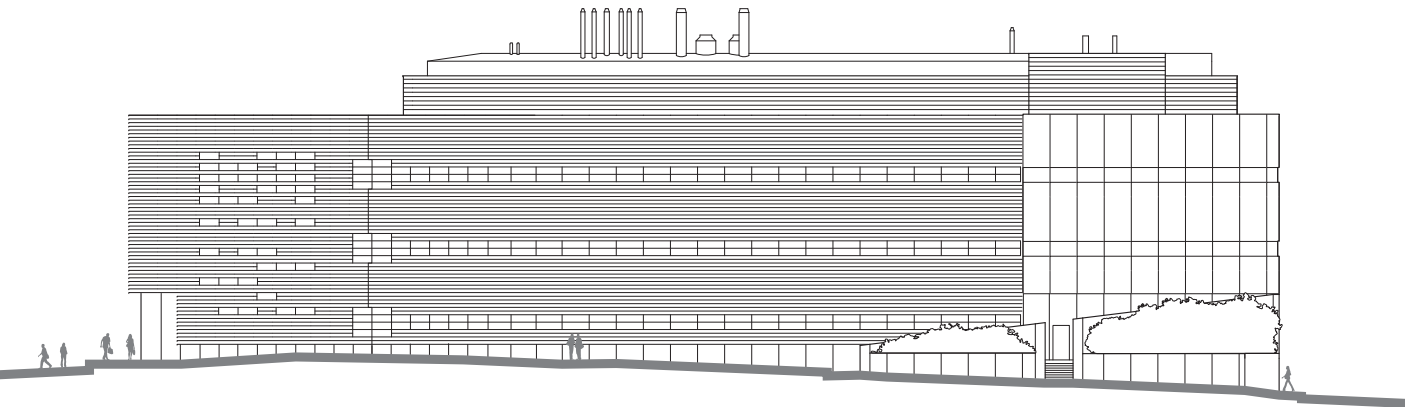
Typical facade bay C



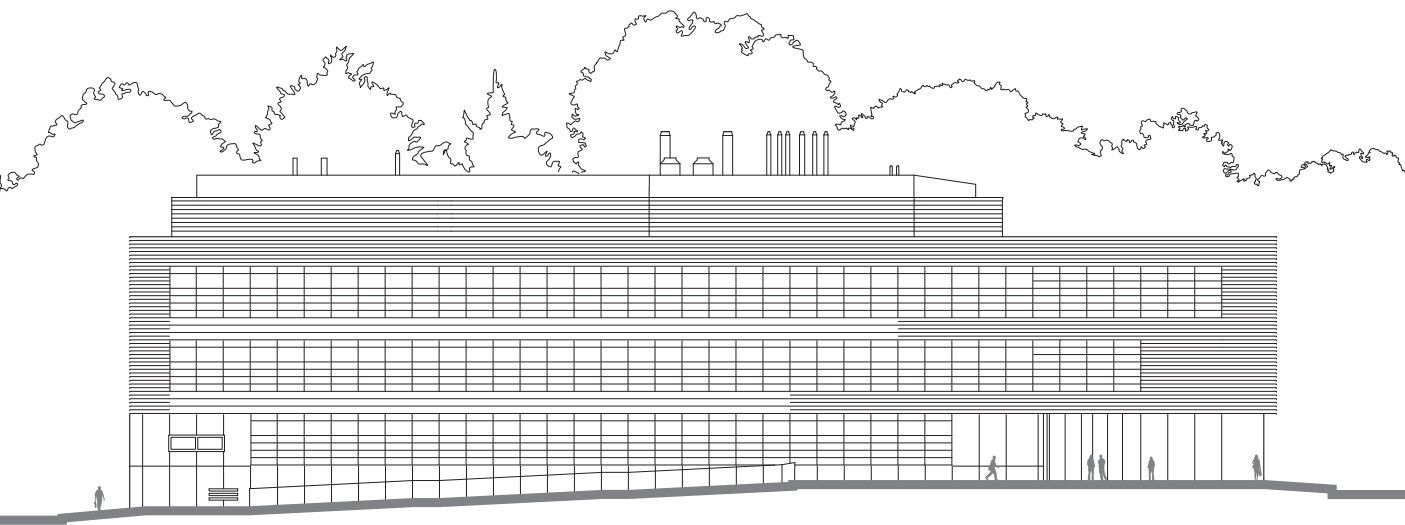
Typical facade bay D



- Key**
- 1 Anodised aluminium louvre
 - 2 Clear glazing
 - 3 Light shelf
 - 4 Spandrel panel
 - 5 Precast concrete



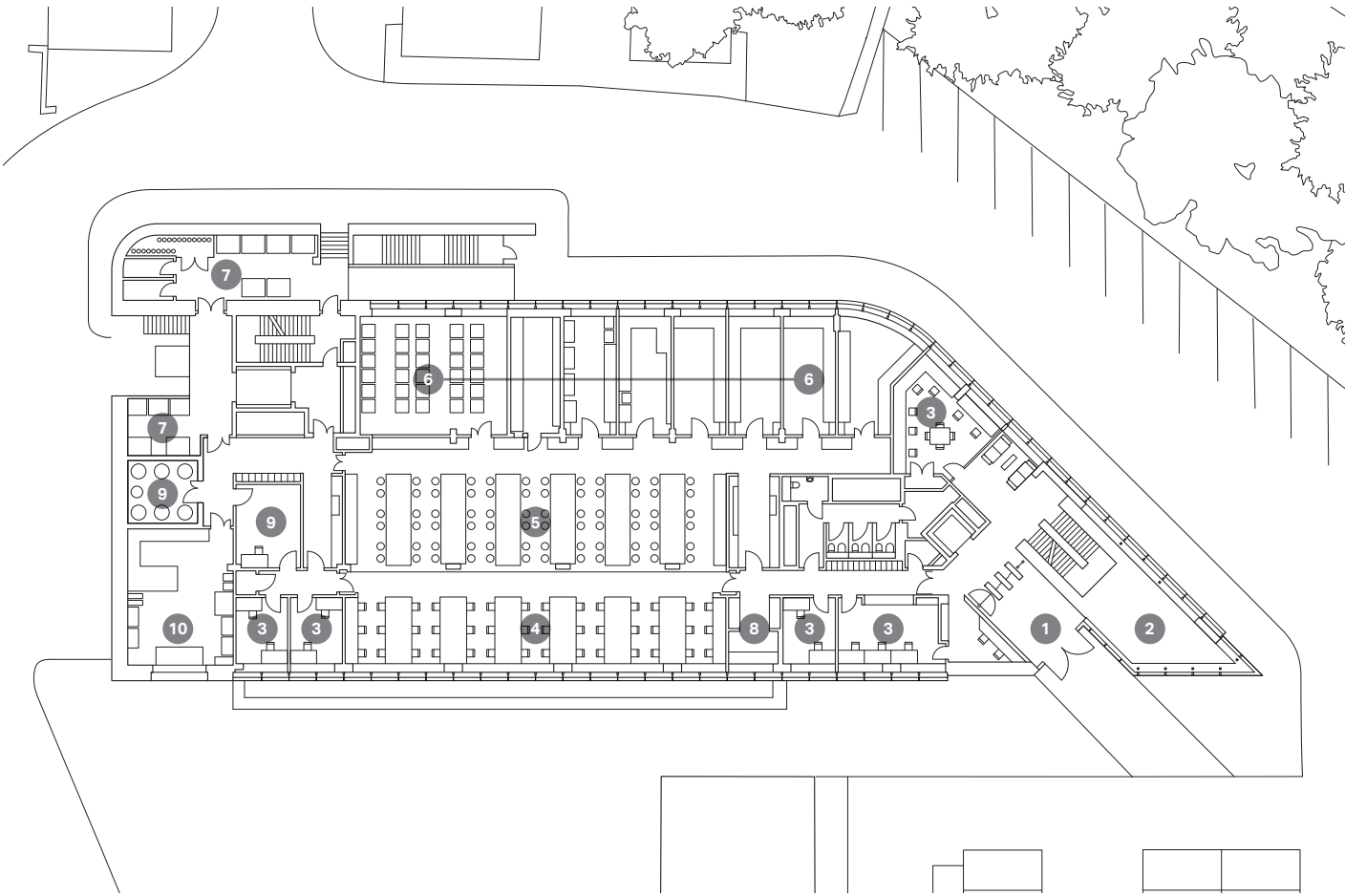
4 North elevation.



5 South elevation.

10m
32ft

- Key**
- | | |
|------------------------|-----------------------------|
| 1 Entrance | 7 Waste laboratory |
| 2 Atrium | 8 Kitchenette |
| 3 Office | 9 Store |
| 4 Write-up space | 10 Autoclave and glass wash |
| 5 Primary laboratory | |
| 6 Secondary laboratory | |



5m
16ft

6 Ground floor plan as built.



7 South elevation showing the horizontal louvers cladding the building. The slot windows and rooflights project varying patterns of natural light into the building's interior, creating energising contrasts of sunlight, shadow and shade.

8 (Opposite) Front entrance expressing the timber-clad atrium from the outside. The building's full height is immediately revealed on entry, creating a welcoming and legible internal arrangement. NB: The paving has since been reconfigured as part of the Big Data Institute's external landscaping.





9 View looking up to the top of the atrium. A prominent sawtooth configuration on the underside of the staircase follows the lines of treads and risers above.



10 View down through the atrium. A stainless steel handrail wraps around the internal faces of the stair to provide a visual contrast with the warm texture of the elm.

11 (Opposite) Cantilevered timber staircase connecting the upper floors to the café in the basement. This elm-clad feature stair winds up through the 4-storey atrium, unifying the floors both physically and visually.



12 Primary lab with adjacent write-up space. The aim was to create a direct visual connection between these areas, helping facilitate building users' collaboration and research.

13 Secondary lab with clerestory windows to prevent overlooking.



14 Lab equipment in use.



Kennedy Institute of Rheumatology

CAMPUS
Old Road

BUILT
2013

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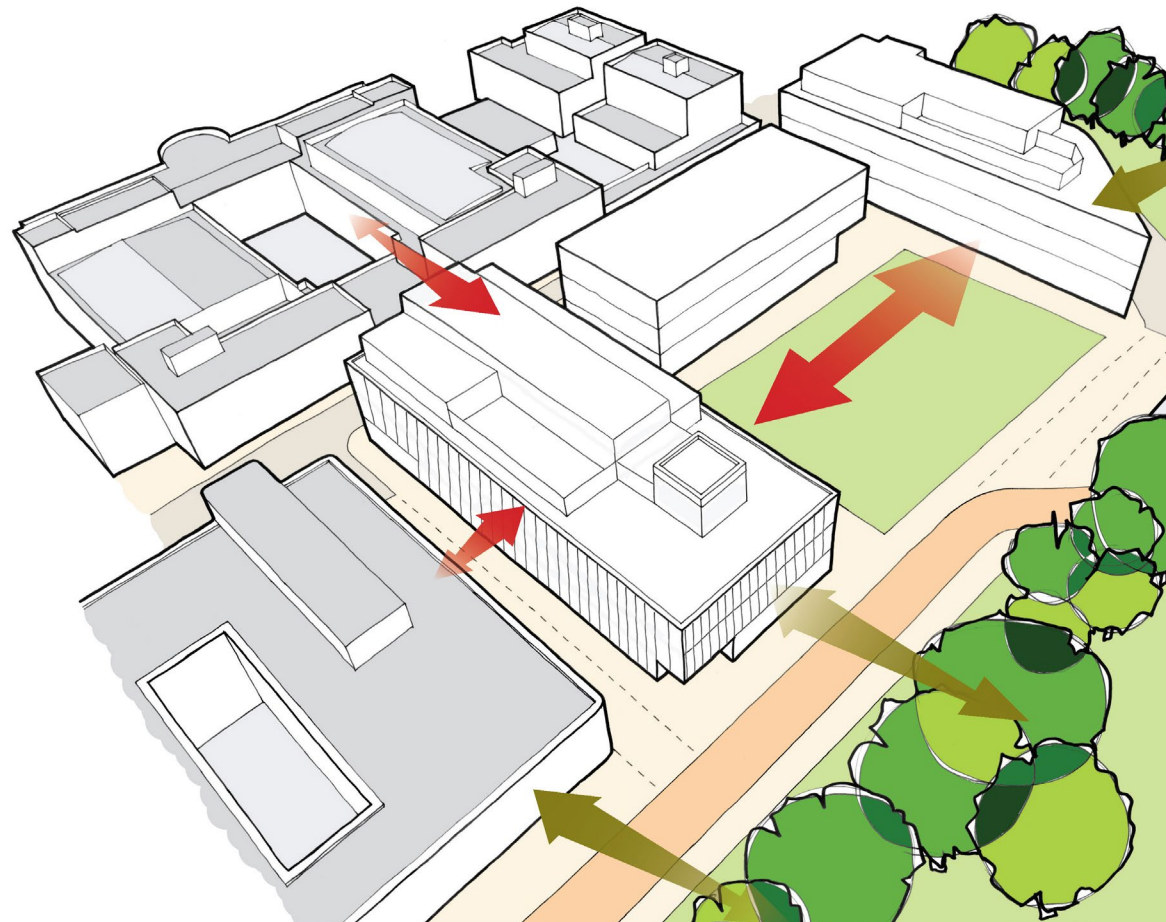
CONTRACTOR
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Ken Shuttleworth,
Rebecca Thomas

Our bespoke home for the Kennedy Institute of Rheumatology is a state-of-the-art laboratory, training facility and teaching hub all in one. Among its distinctive features are a glass and steel staircase in the atrium, a generous roof terrace, and a corner setback that gives the front elevation an asymmetric twist. The building's entrance spaces correspond with the wider campus layout, while its vertical cladding matches that of its neighbours.

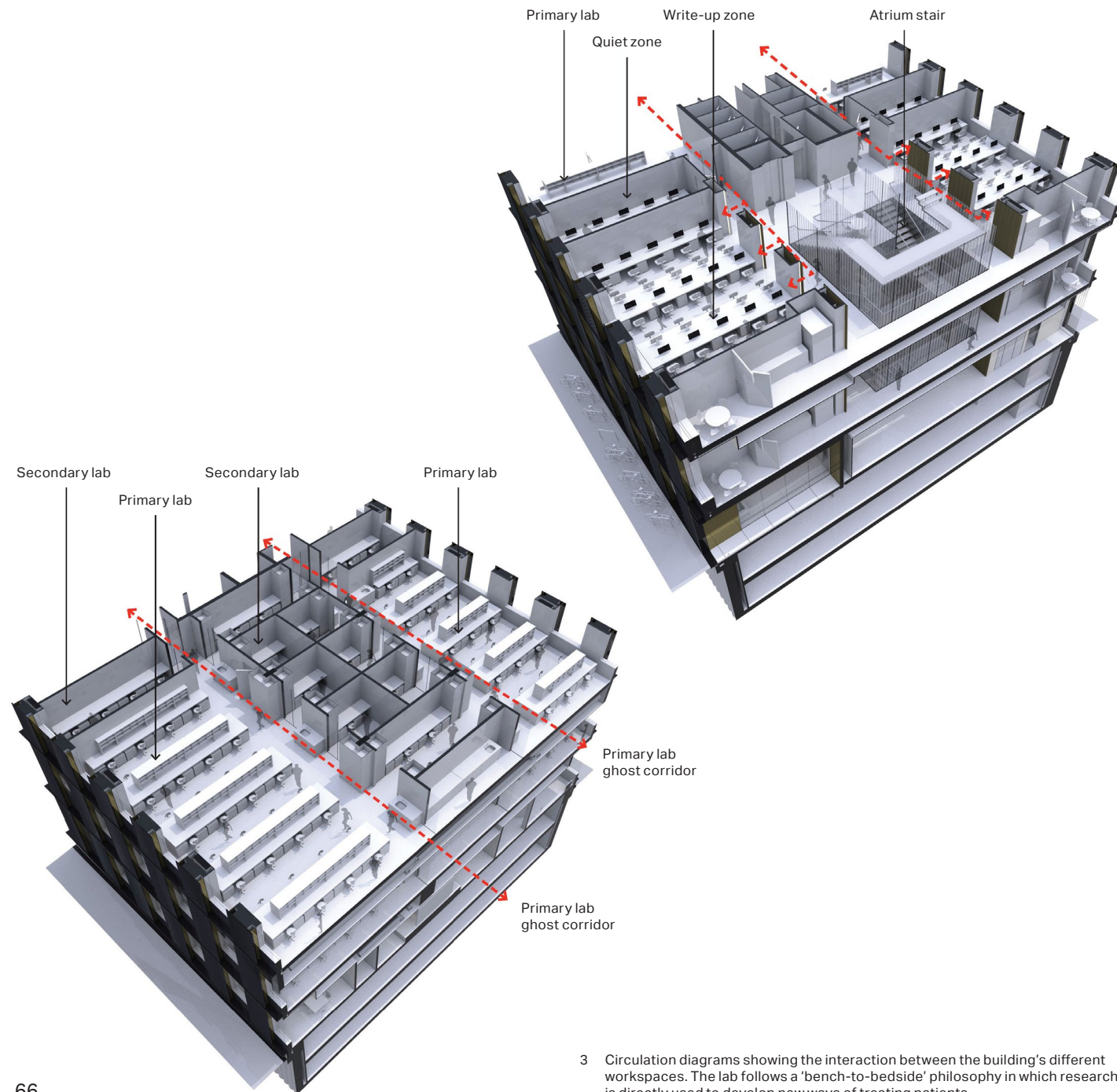




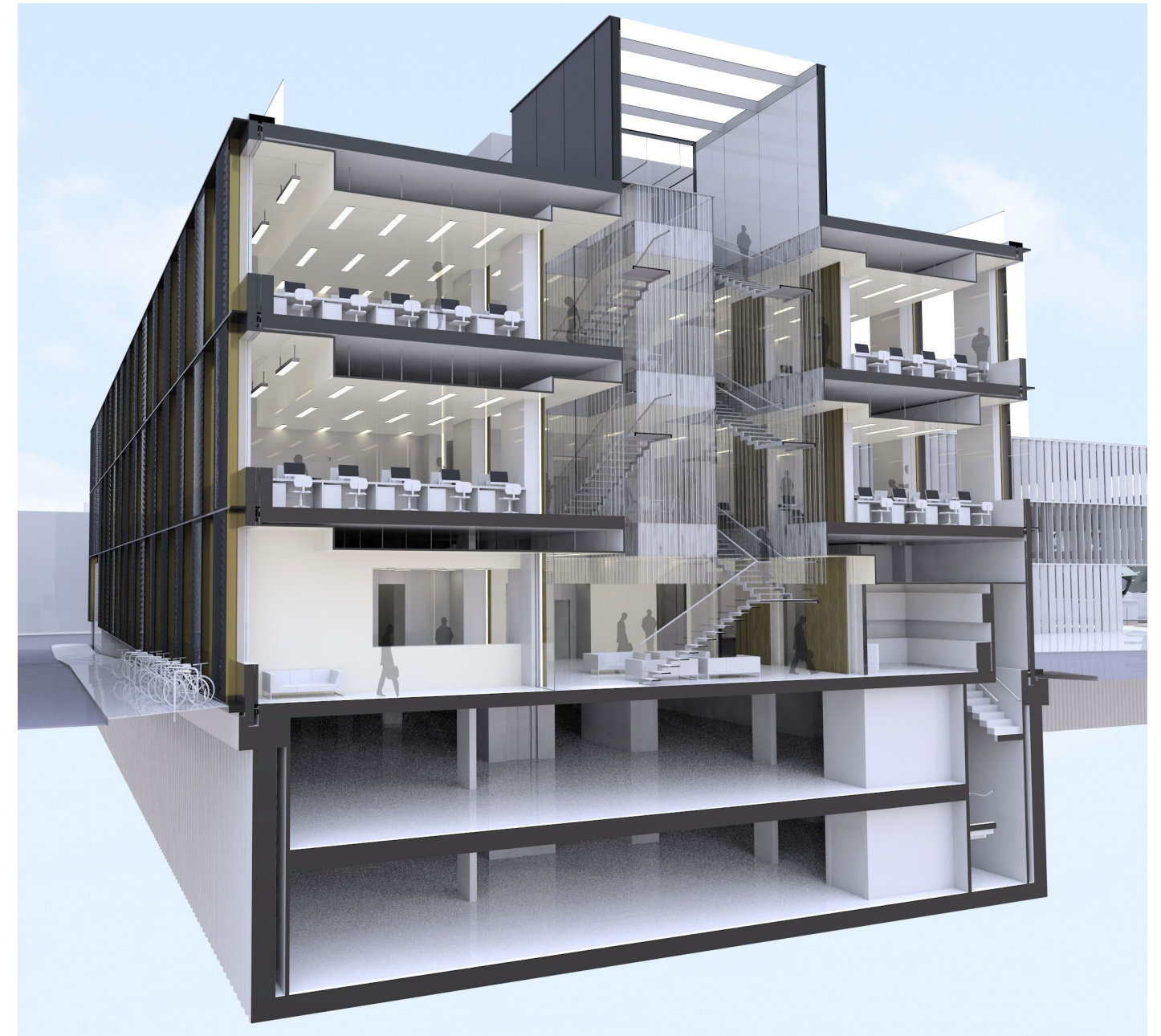
1 Plan showing the building's relationship to neighbouring structures, including the Old Road Campus Research Building, the NDM Research Building and the Wellcome Trust Centre. The Big Data Institute now occupies the open square.



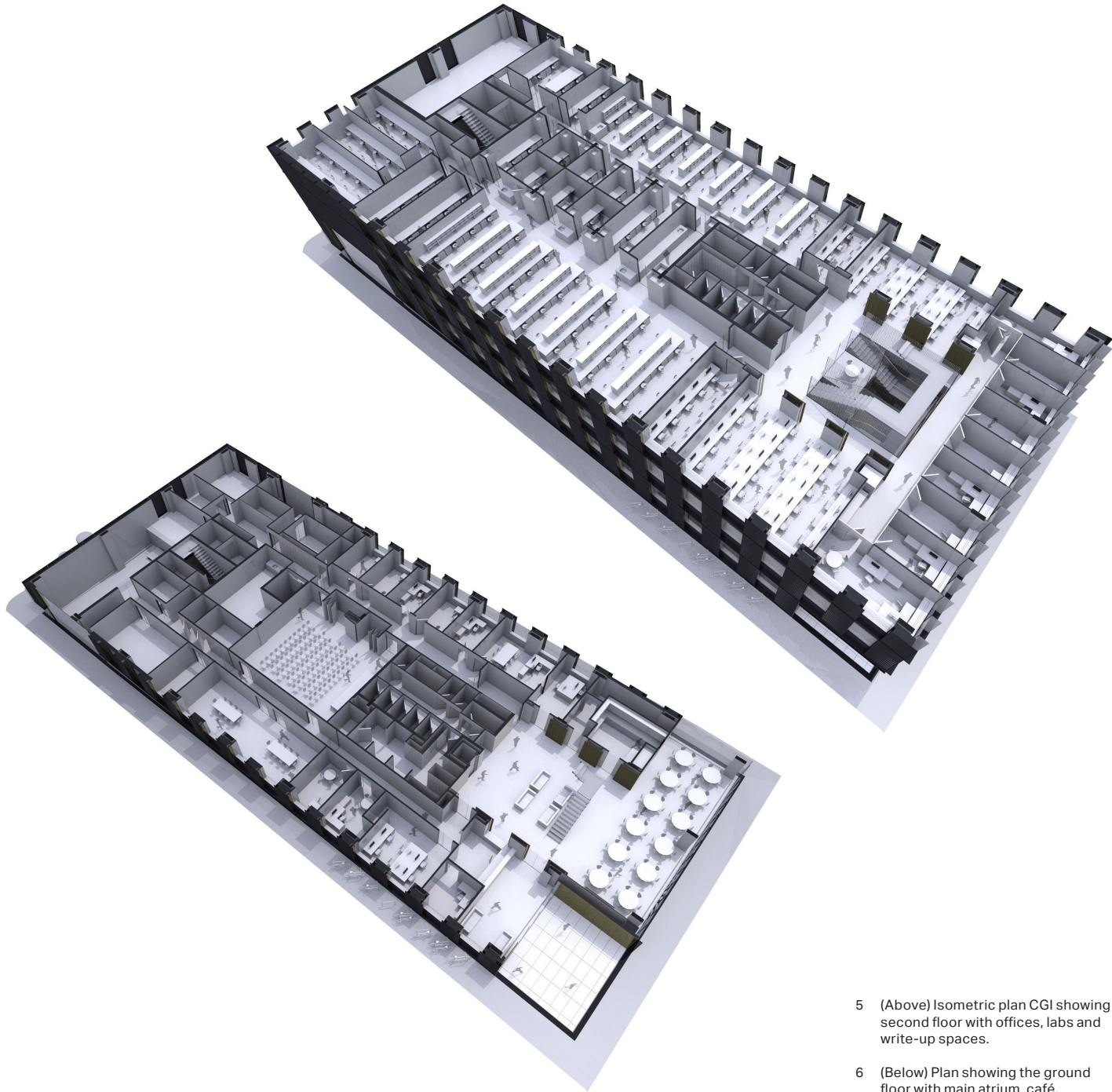
2 Concept sketch of the interior spaces. The collaborative, cross-disciplinary nature of the institute's work prompted us to design a bright interior that establishes a strong sense of openness and community.



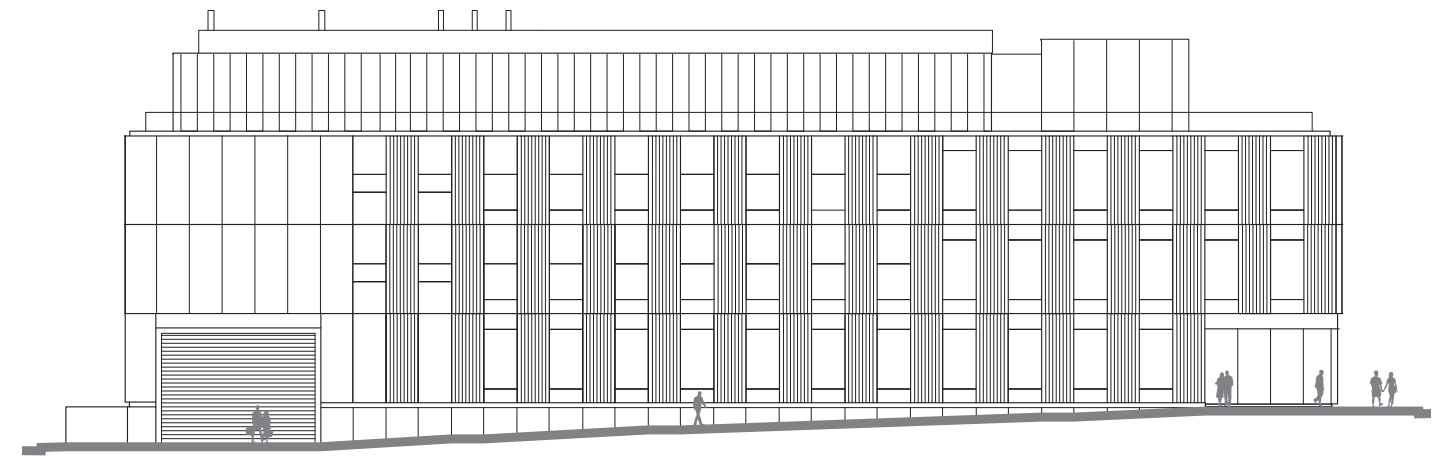
3 Circulation diagrams showing the interaction between the building's different workspaces. The lab follows a 'bench-to-bedside' philosophy in which research is directly used to develop new ways of treating patients.



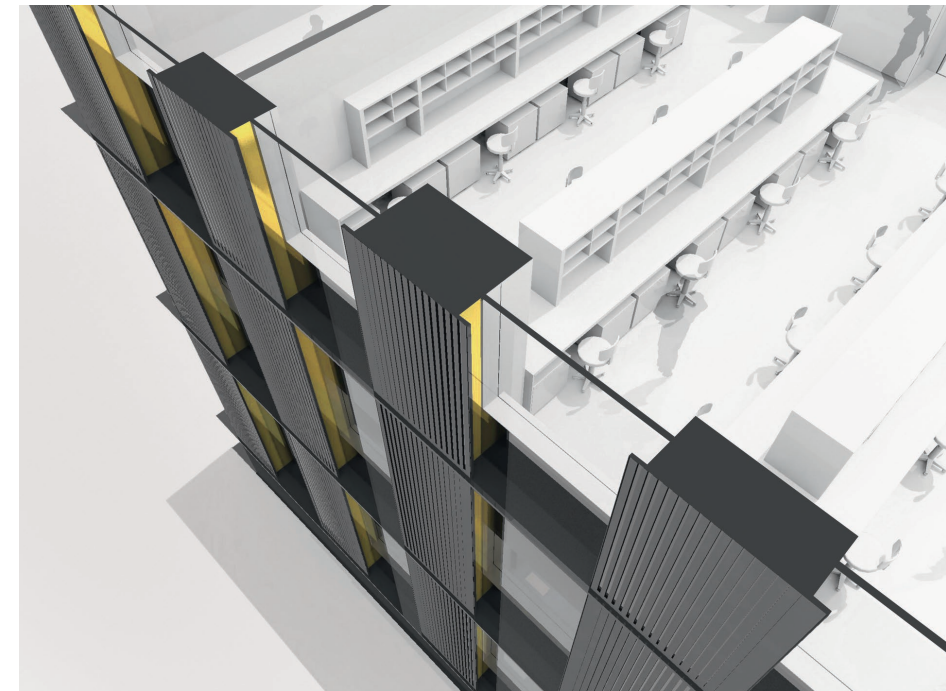
4 Section showing atrium circulation. A welcoming space at the front of the ground floor functions as a relaxing staff breakout area.



- 5 (Above) Isometric plan CGI showing second floor with offices, labs and write-up spaces.
- 6 (Below) Plan showing the ground floor with main atrium, café, seminar space and offices.



7 South elevation.



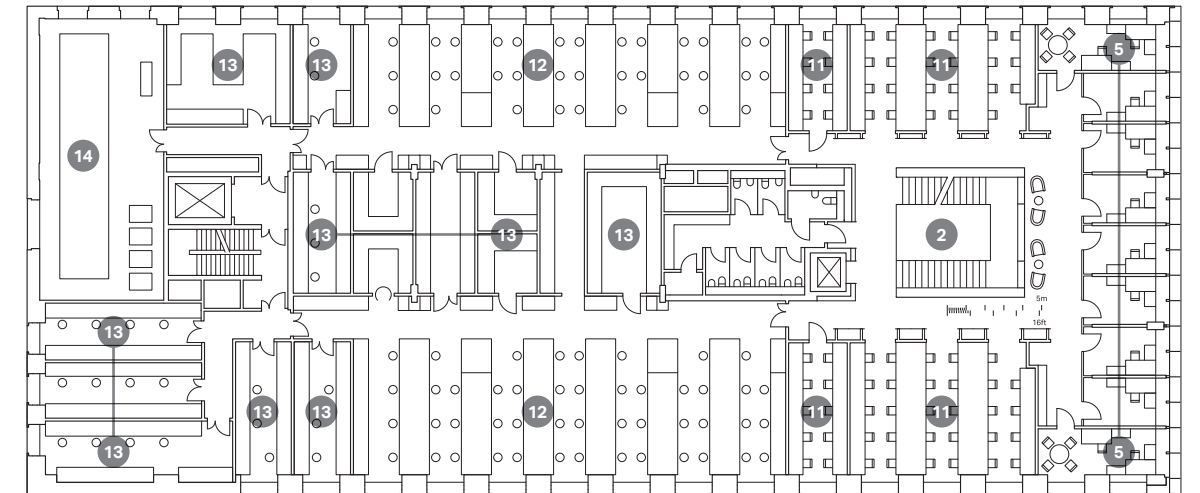
8 CGI glimpse into level 2. The organisation of the lab benches allows for views from the full-height glazing.

9 Ground floor plan as built.



Key

- | | |
|---------------------|----------------------------|
| 1 Entrance | 9 Autoclave and glass wash |
| 2 Atrium | 10 Store |
| 3 Café | 11 Write-up space |
| 4 Kitchen | 12 Primary laboratory |
| 5 Office | 13 Secondary laboratory |
| 6 Lecture theatre | 14 Plant |
| 7 Seminar/boardroom | |
| 8 Deliveries | |



10 Second floor plan as built.



11 East elevation showing the café space at the lower level, with offices above that feature outward-opening windows.



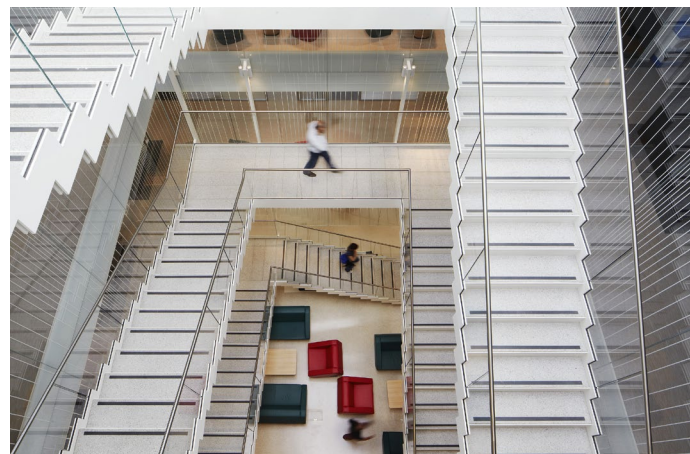
12 Main entrance with canopy in use.



13 View of the staircase at the main entrance from various angles. The glazed atrium and feature staircase act as a primary circulation hub rising from the ground floor, with a roof lantern drawing natural light into the heart of the building as well as the write-up spaces on levels 1 and 2.



14 (Opposite) First floor views through to the staircase and fabric acoustic wall behind. Thin white fritted stripes emphasise the verticality of the space, while the zig-zagging staircase – formed from steel, terrazzo and glazed balustrades – conveys a crisp sense of precision.





15 Ground floor café in use. The building's interiors were chosen to offer views of both interior and external surroundings, maximising visual permeability and transparency.

16 (Opposite) Glass cladding detail. The panels create alternating reflective and matte strips that play on the reflections in the green cladding of the nearby Old Road Campus Research Building.



Oxford Molecular Pathology Institute

CAMPUS
South Parks Road

BUILT
2011

UNIVERSITY
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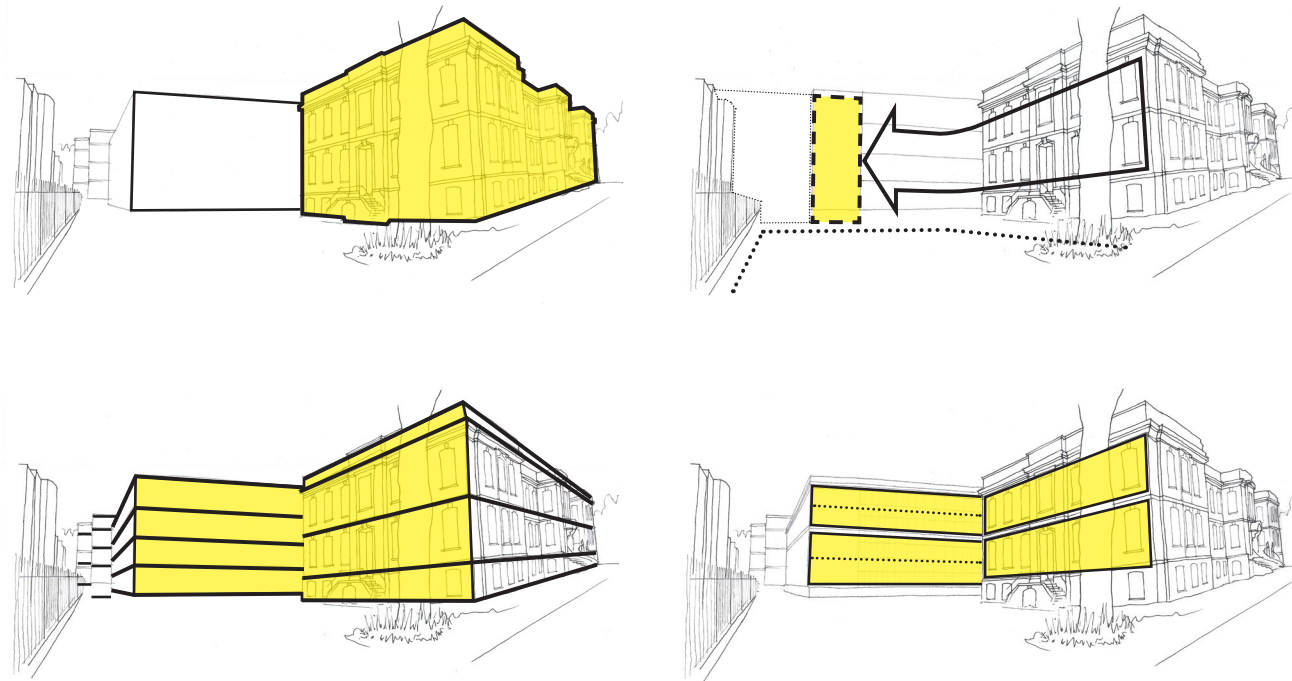
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Peter Brett Associates
Cost consultant: Arcadis

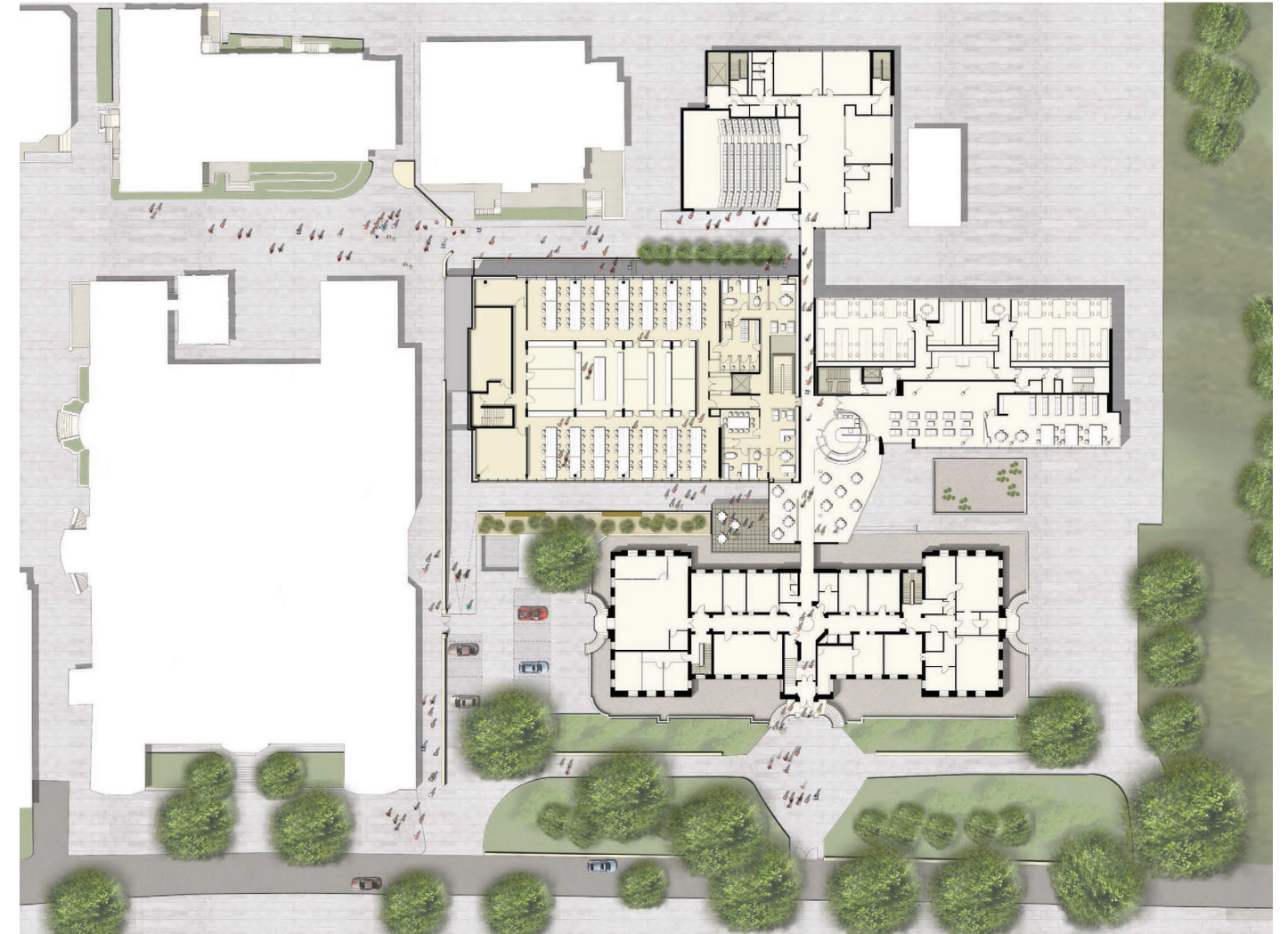
MAKE TEAM
Jonathan Mitchell,
Justin Nicholls,
Ken Shuttleworth,
Rebecca Thomas

Our design for this multi-disciplinary research facility – home to some 200 scientists – puts collaboration at the centre of things. Flexible laboratory spaces surround an open-feature staircase to create a focal point where people can meet and interact. The building's facade references the adjacent Dunn School and features horizontal louvres that provide solar shading in a cascading pattern reminiscent of the DNA double-helix.

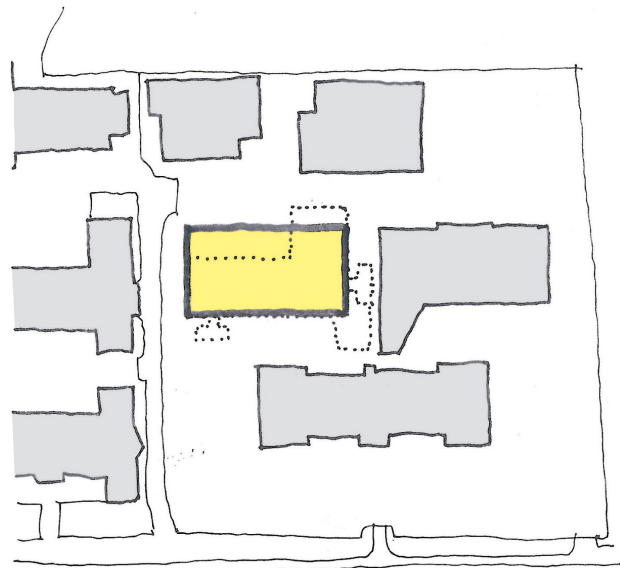




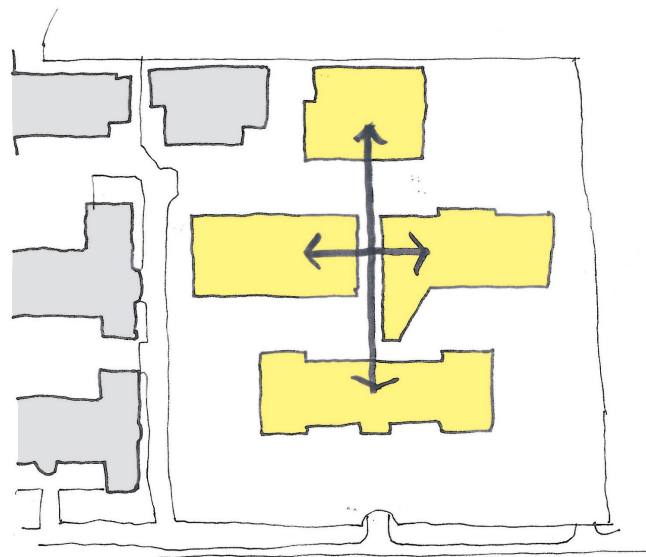
1 Diagrams exploring the building's adjoining relationship with the Sir William Dunn School of Pathology next door.



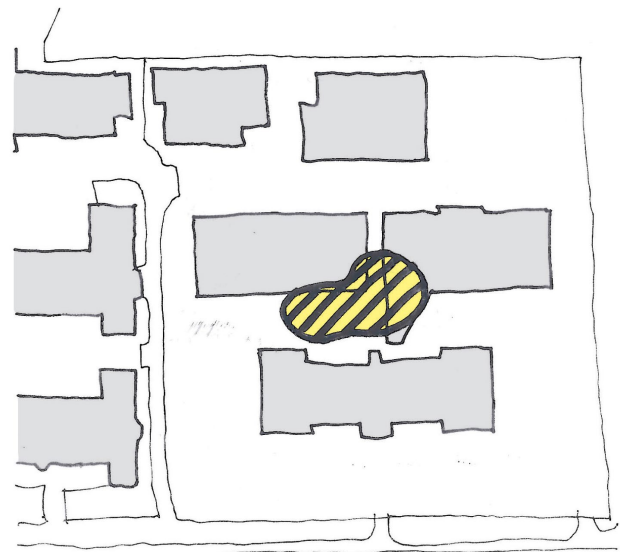
2 Location plan showing the Oxford Molecular Pathology Institute. The building has been designed to strengthen links with the institute's sister departments by functionally integrating shared resources.



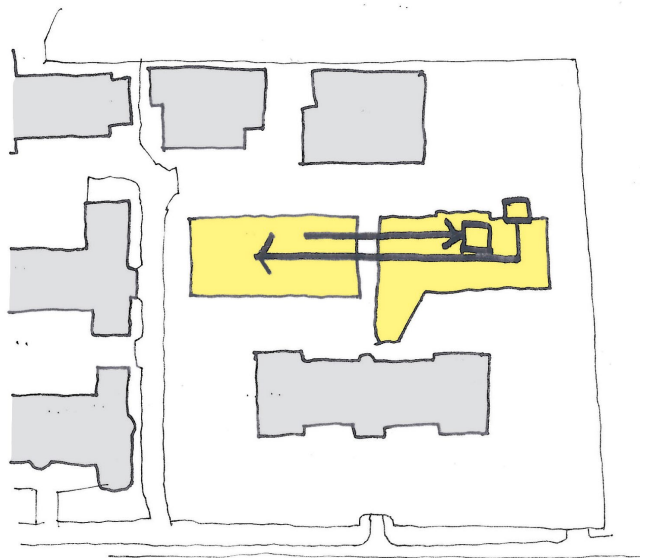
Replace the Leslie Martin Building.



Provide links between new and existing buildings.

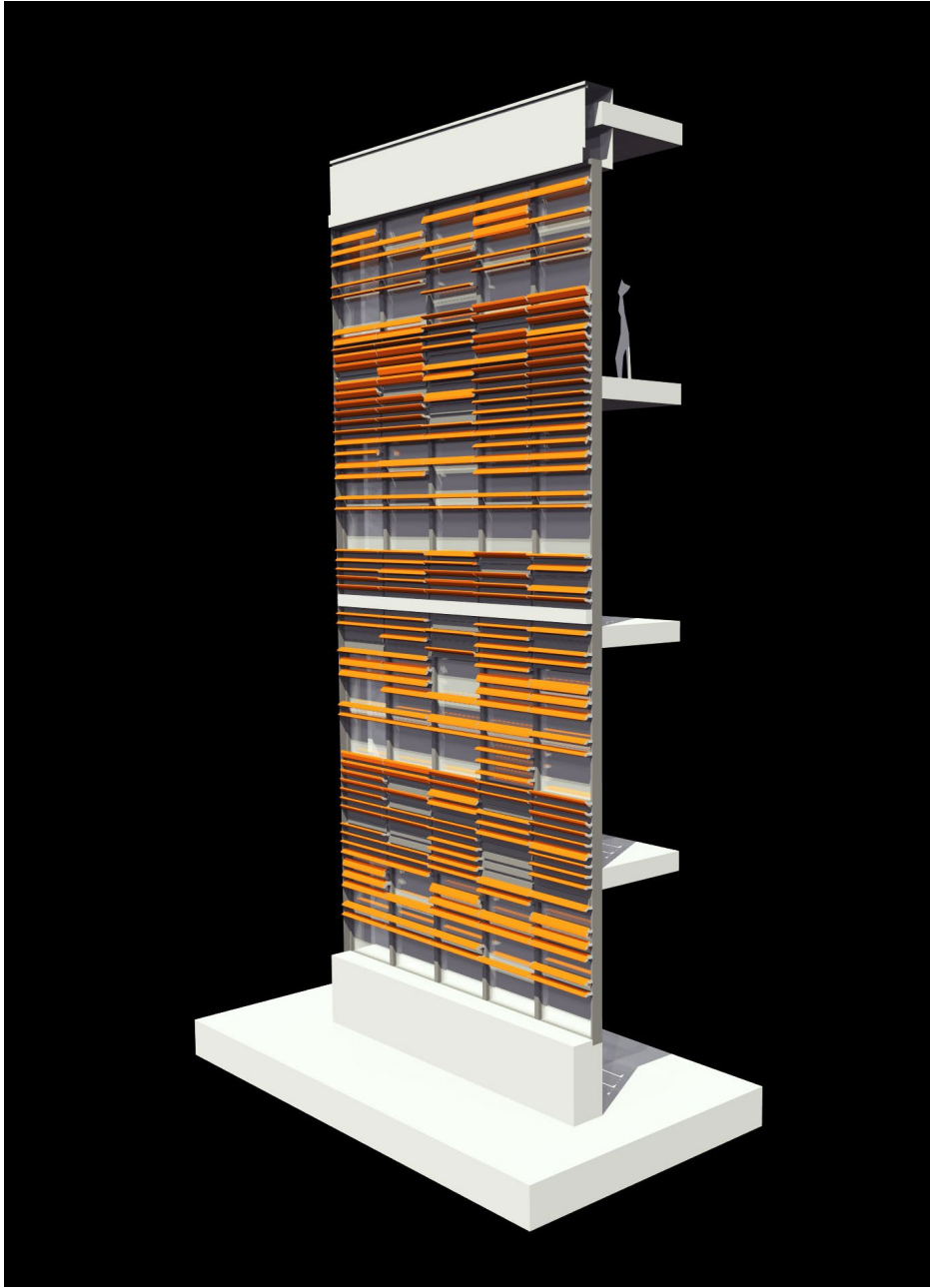


Expand social and amenity spaces.



Service from the existing EPA Building.

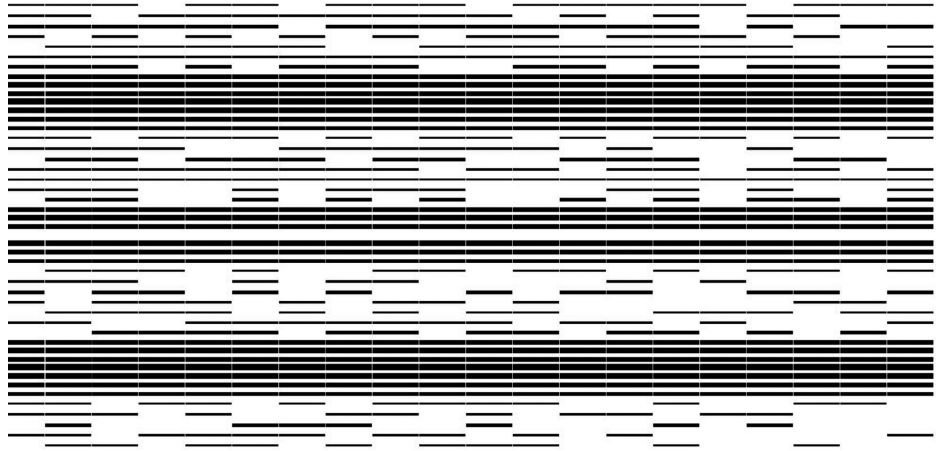
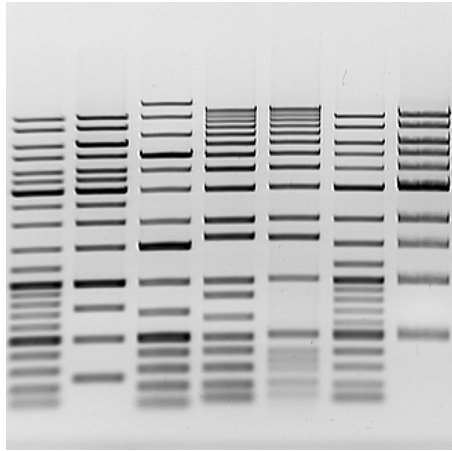




5 Cladding study showing the horizontal louvers on the facade, which take their inspiration from cell structures.



6 North elevation.



7 Cladding elevation patterns inspired by the DNA ladder. The louvers provide solar shading on the building's southern facade.

- Key

1 Main entrance

2 Existing café

3 Café terrace

4 Main staircase

5 Office

6 Meeting room

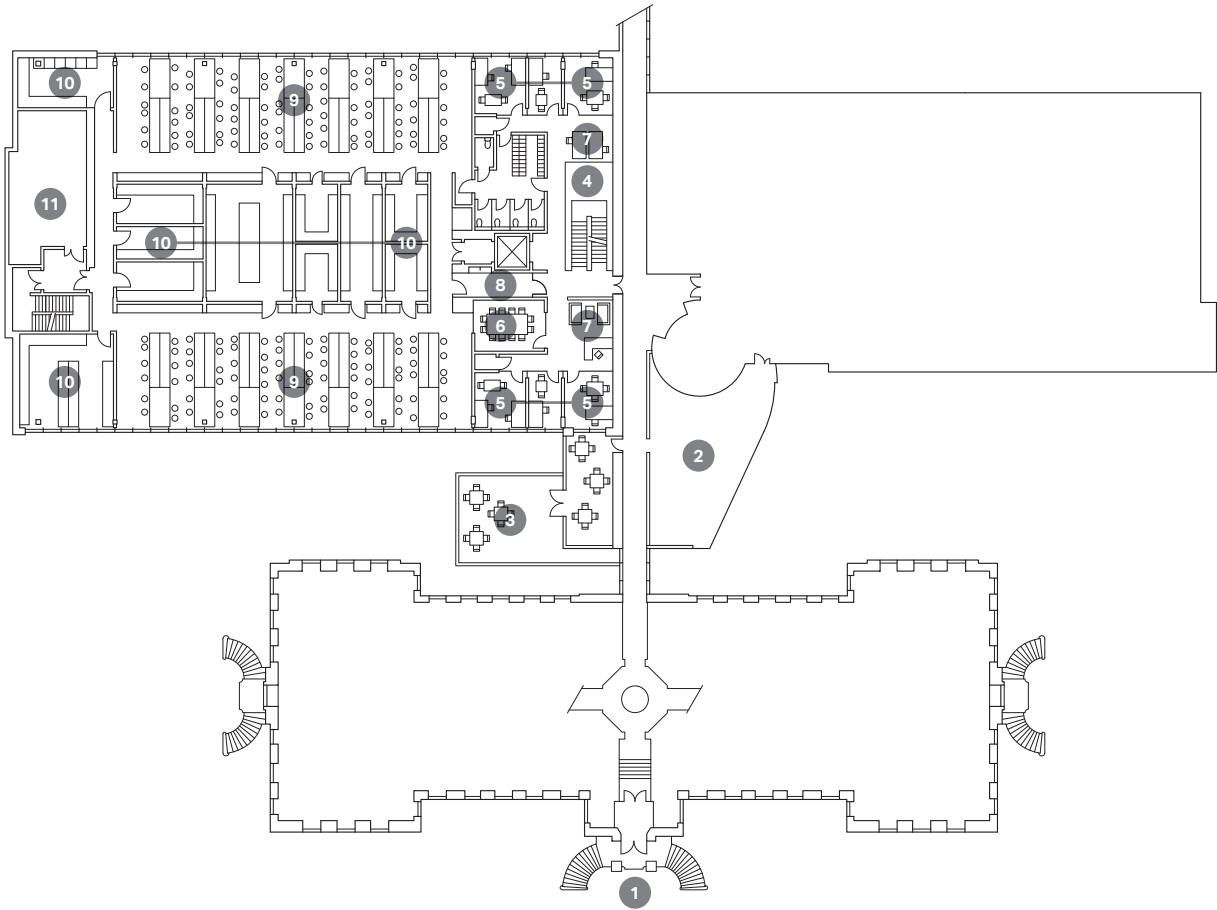
7 Breakout space

8 Air lock

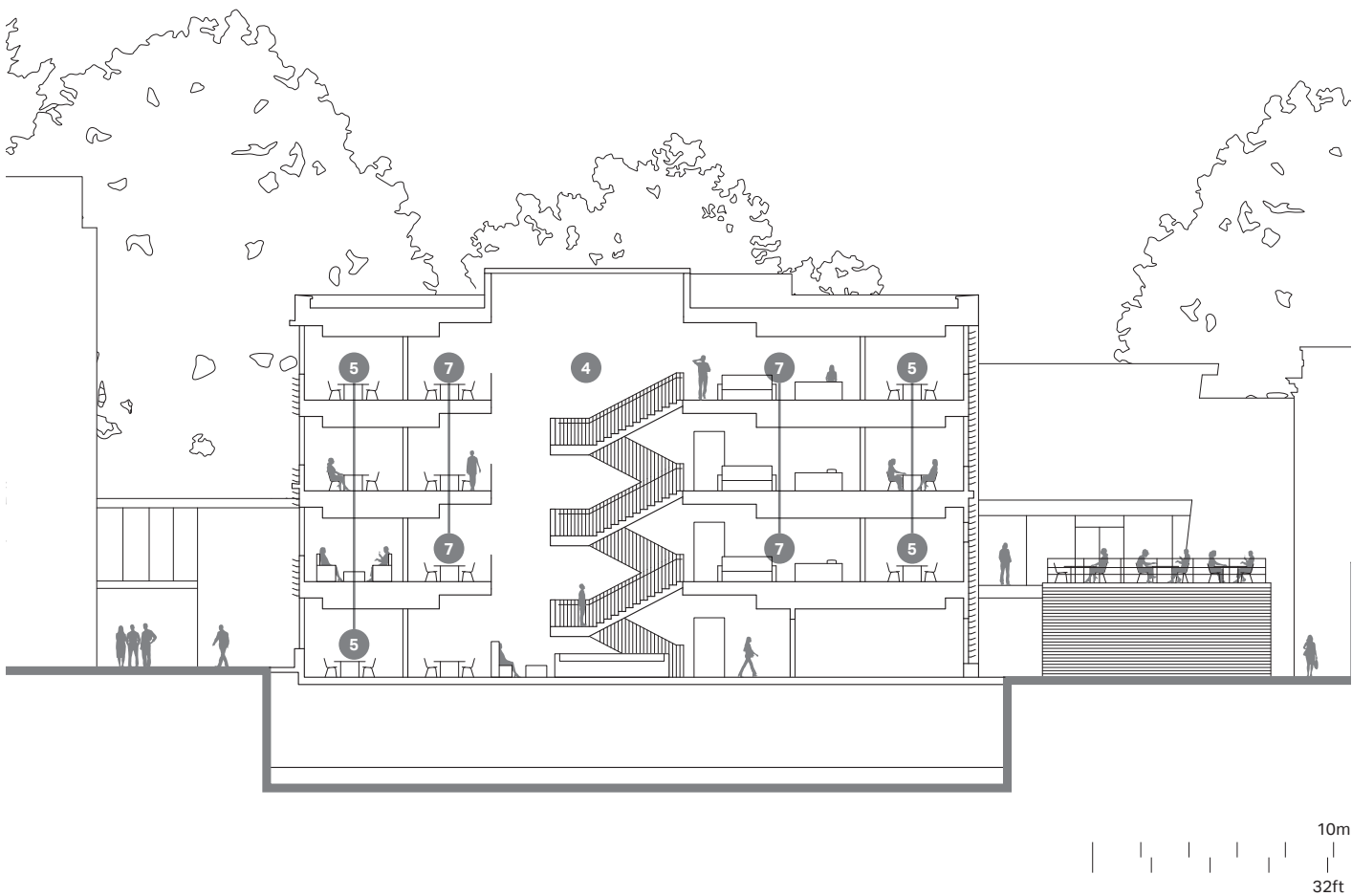
9 Primary laboratory

10 Secondary laboratory

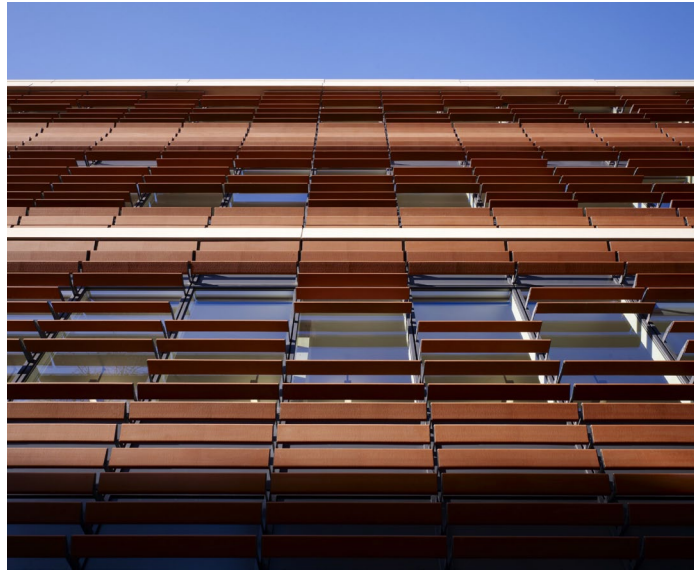
11 Plant



8 First floor plan showing entrance through the Sir William Dunn School of Pathology.



9 Ground floor plan as built.



10 Images showing the relationship between the Oxford Molecular Pathology Institute and the Dunn School. The new building picks up the fine detailing, colour and texture of the adjoining one, carrying them through with stone and terracotta cladding.

11 (Opposite) Cladding detail. The louvres' appearance changes depending on their angle and the direction of sunlight.





12 Cladding details at the building entrance, including louvers at different scales. Varying rotations of the louvers cast shadows, giving a layered effect to the facade.



13 View of the top-lit atrium and staircase. The stair is lined with timber, a nod to the original building on site and to Oxford's academic heritage.



14 Looking down at the breakout spaces at the base of the atrium, designed to encourage chance meetings between building users.



15 Detail of the open staircase, which rationalises circulation across the building.



16 Laboratory in use.

Old Road Campus Research Building

CAMPUS
Old Road

BUILT
2007

UNIVERSITY
REPRESENTATIVES
Eveline James, Mike Wigg

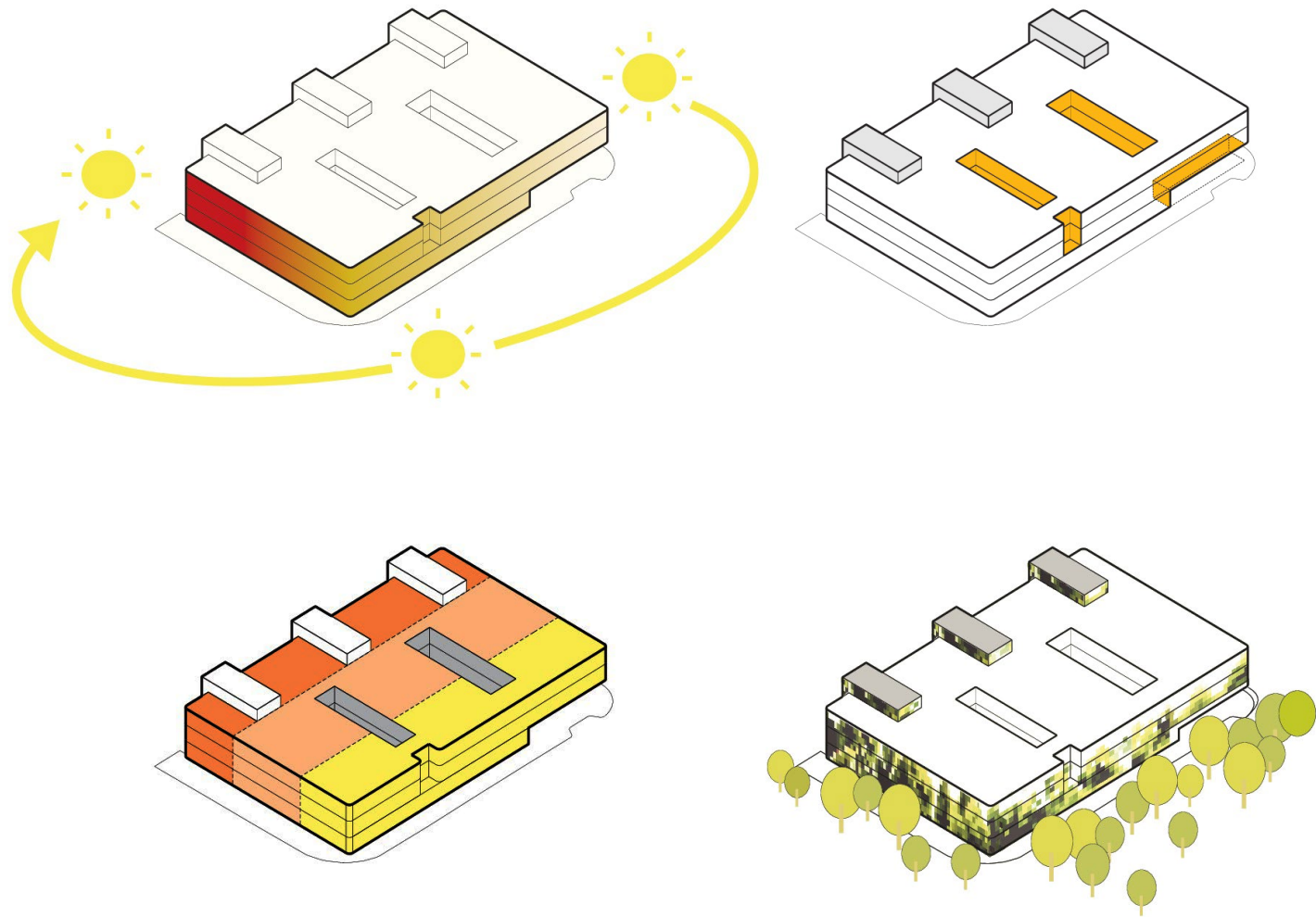
CONTRACTOR
Mace

DESIGN TEAM
Architect: Make
Project manager:
RB Development
Building services:
Foreman Roberts,
Long and Partners
Structural engineer:
Price & Myers
Cost consultant: Arcadis

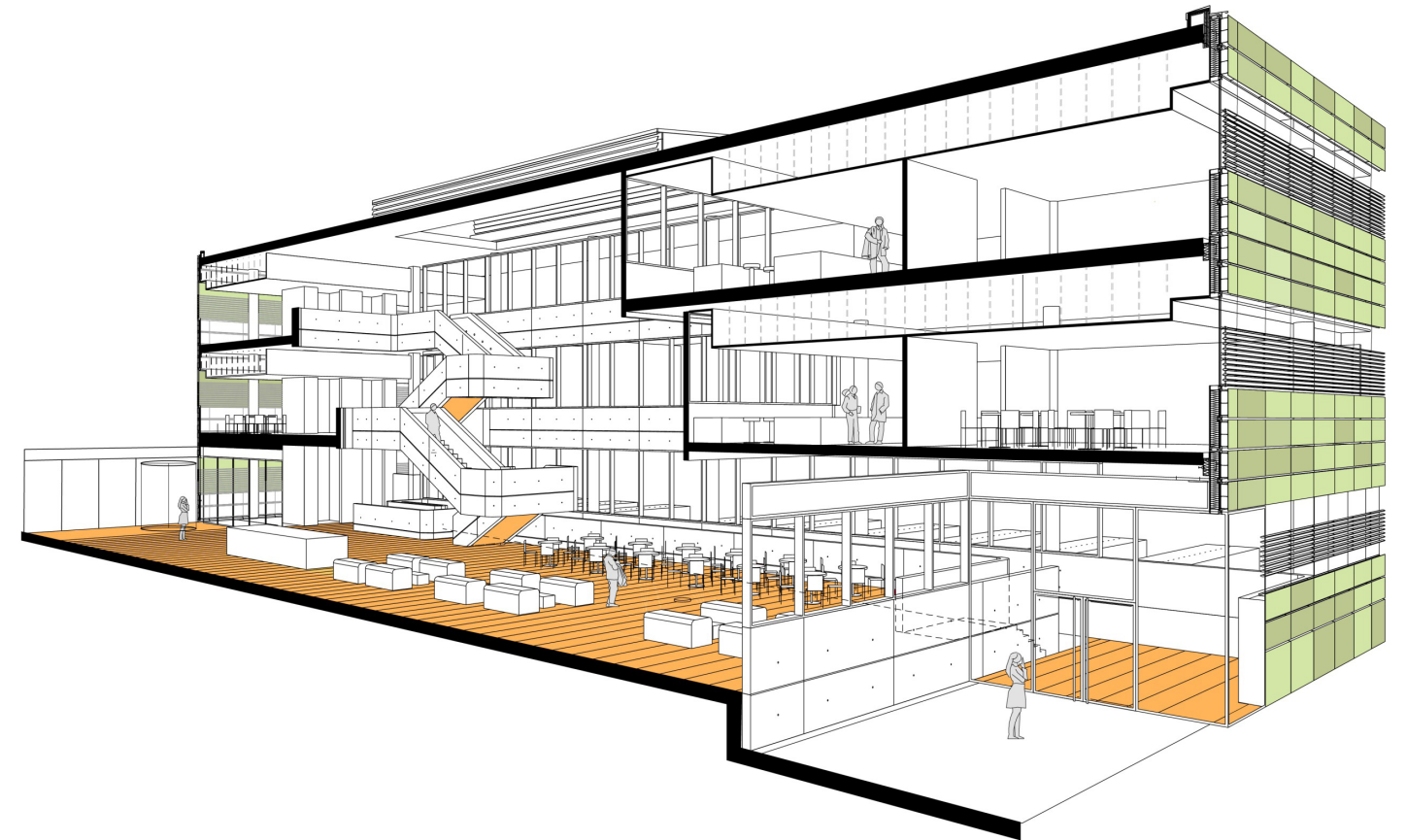
MAKE TEAM
Stuart Fraser,
Jonathan Mitchell,
Justin Nicholls,
Ken Shuttleworth,
Rebecca Thomas

The Old Road Campus Research Building brings together six world-leading cancer research institutions. Our design breaks down the building into three zones – laboratories, flexible space, and office and write-up space – set around two atria that form the social heart of this 4-storey structure. The atria offer a contemporary reinterpretation of a traditional university quad, with spaces that draw people in and through the building, including cast concrete staircases and a café.

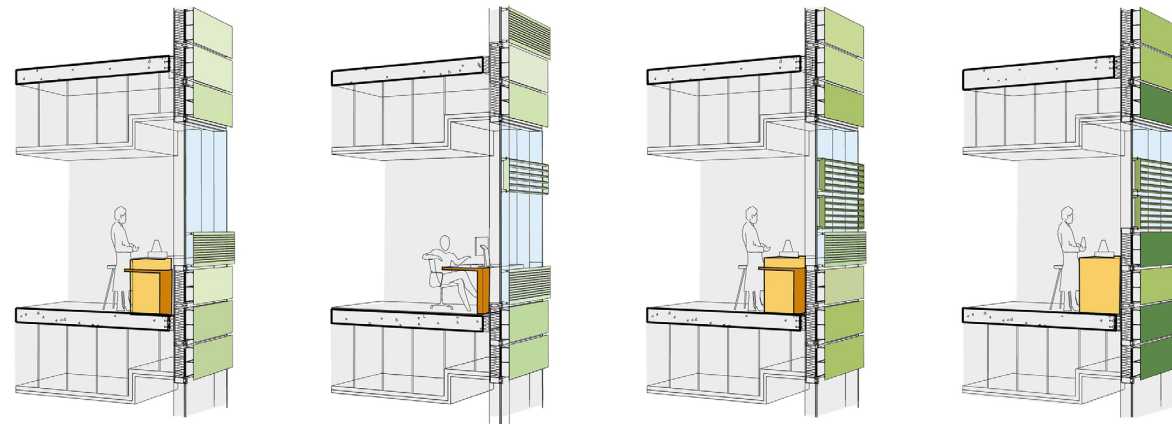
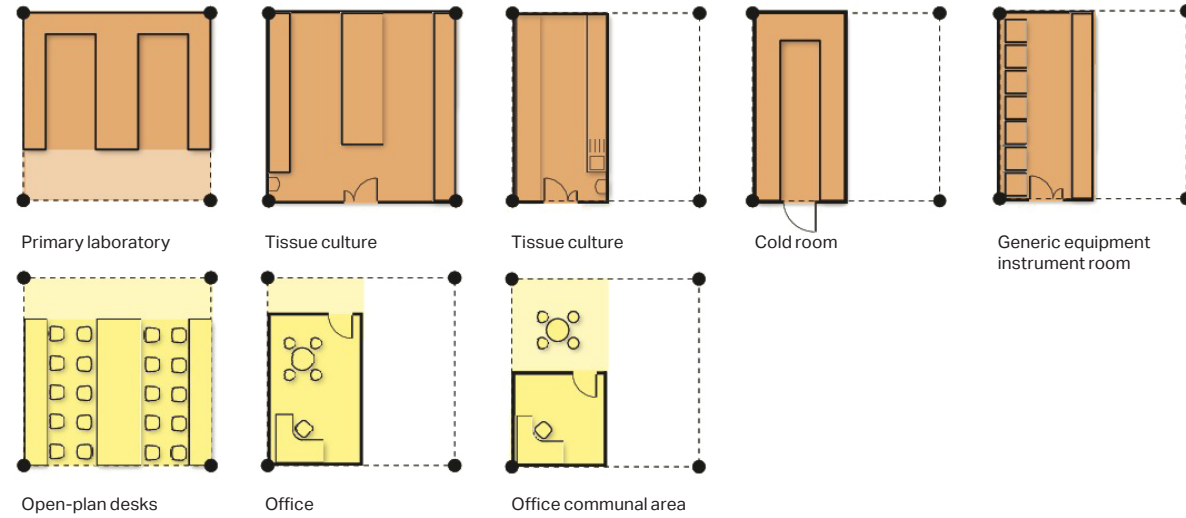




1 (Clockwise from top left) Diagrams exploring the building's sun path, atria, relationship with surrounding trees, and flexibility of use.



2 Cross-section showing one atrium, the café, and front and rear entrances. The building is three storeys above ground, with a partial basement that accommodates a slope across the site.



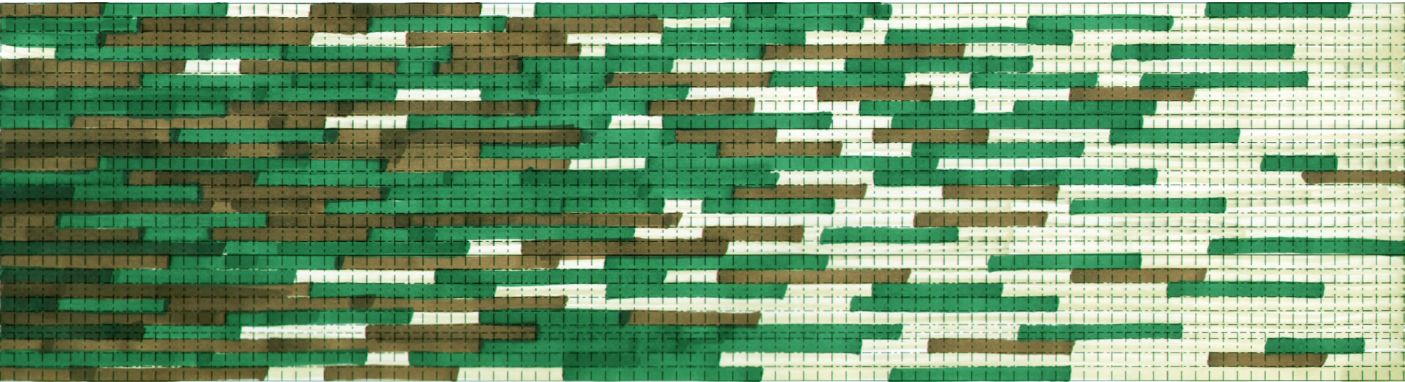
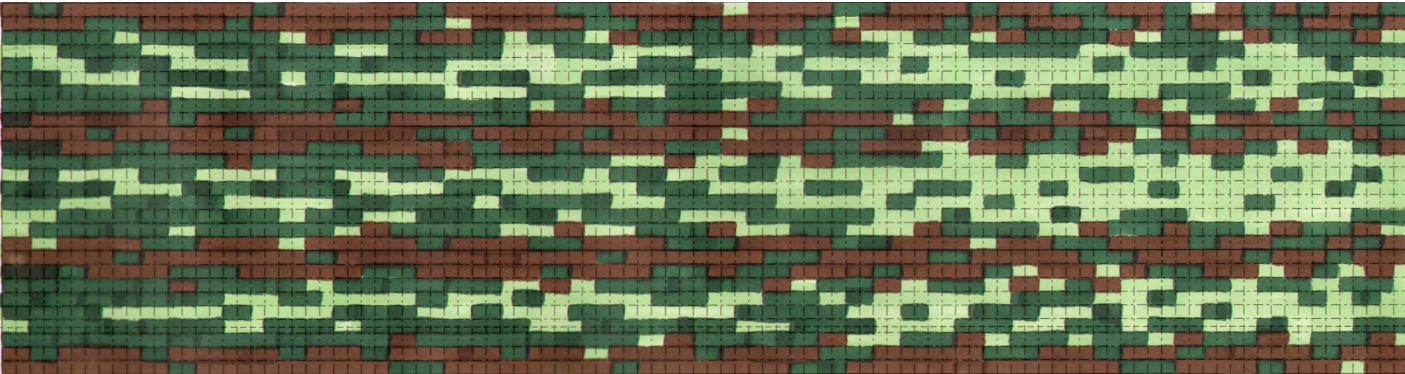
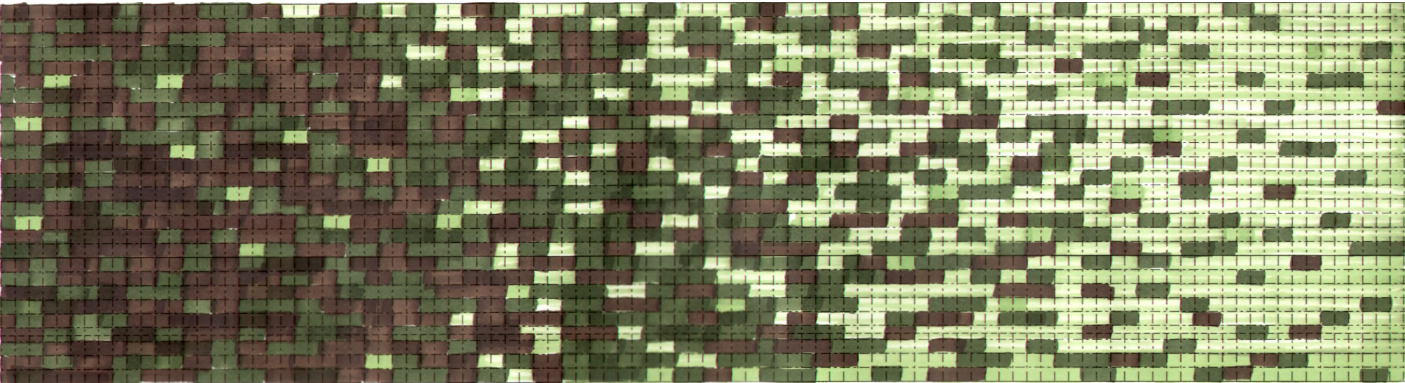
- 3 (Top) Diagrams showing different workspaces across the building. The structural grid accommodates flexible office spaces that can contract or expand over time depending on the needs of different departments.
- 4 (Bottom) Diagrams showing the typical conditions of the facade and the relationship with desks and research spaces.



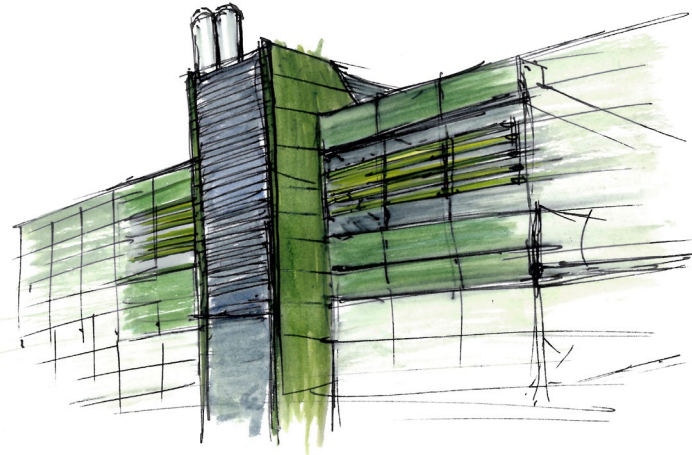
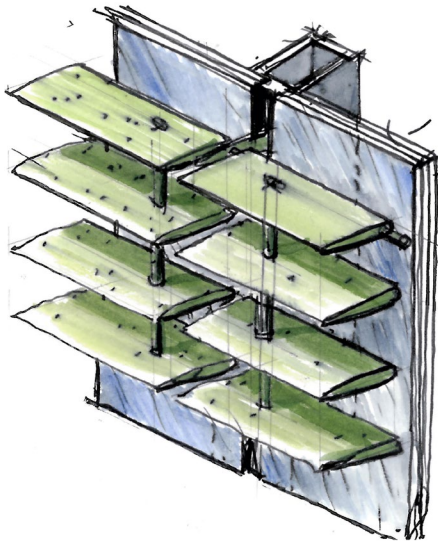
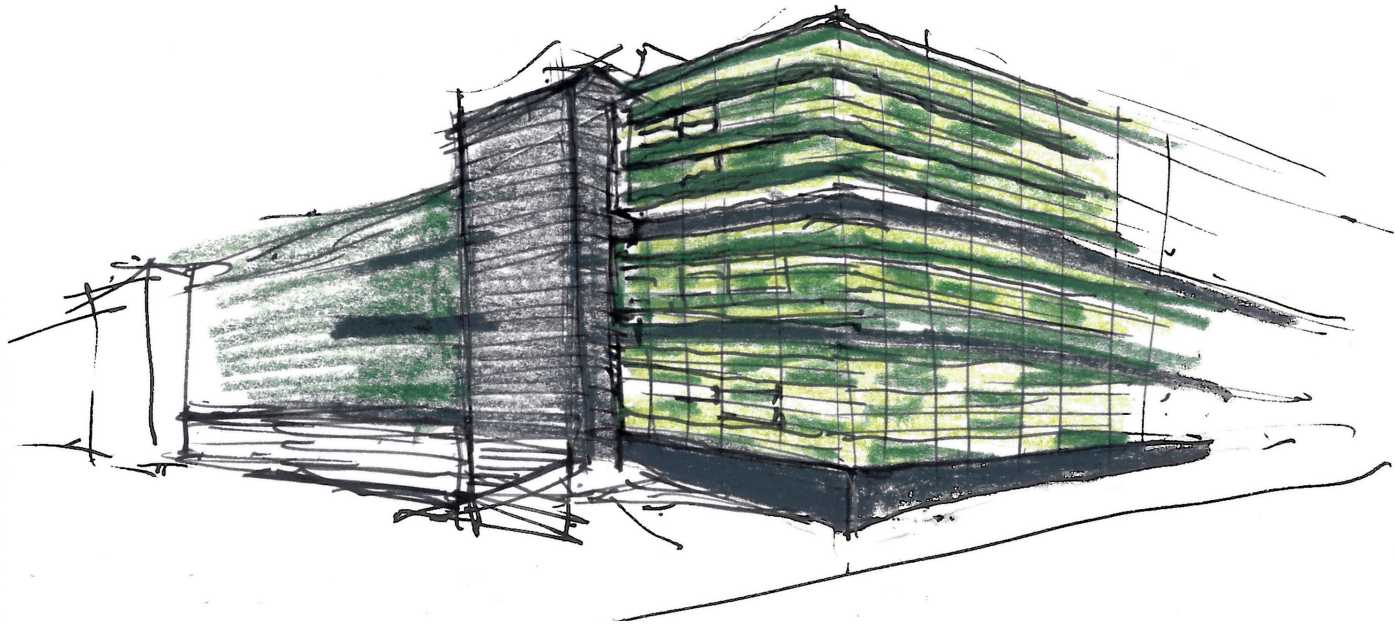
- 5 Stair and atrium study models. The building's facilities are set around two naturally lit atria that form the social heart of the 4-storey structure, offering a contemporary reinterpretation of a traditional university quad.



Cladding studies

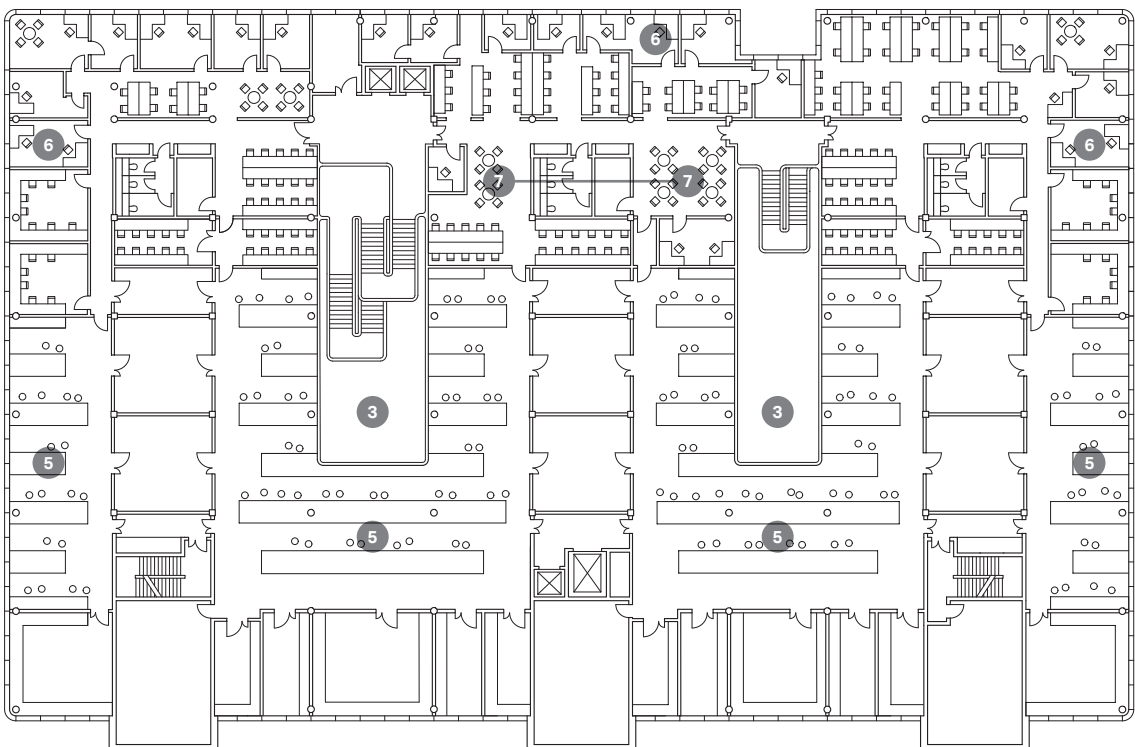
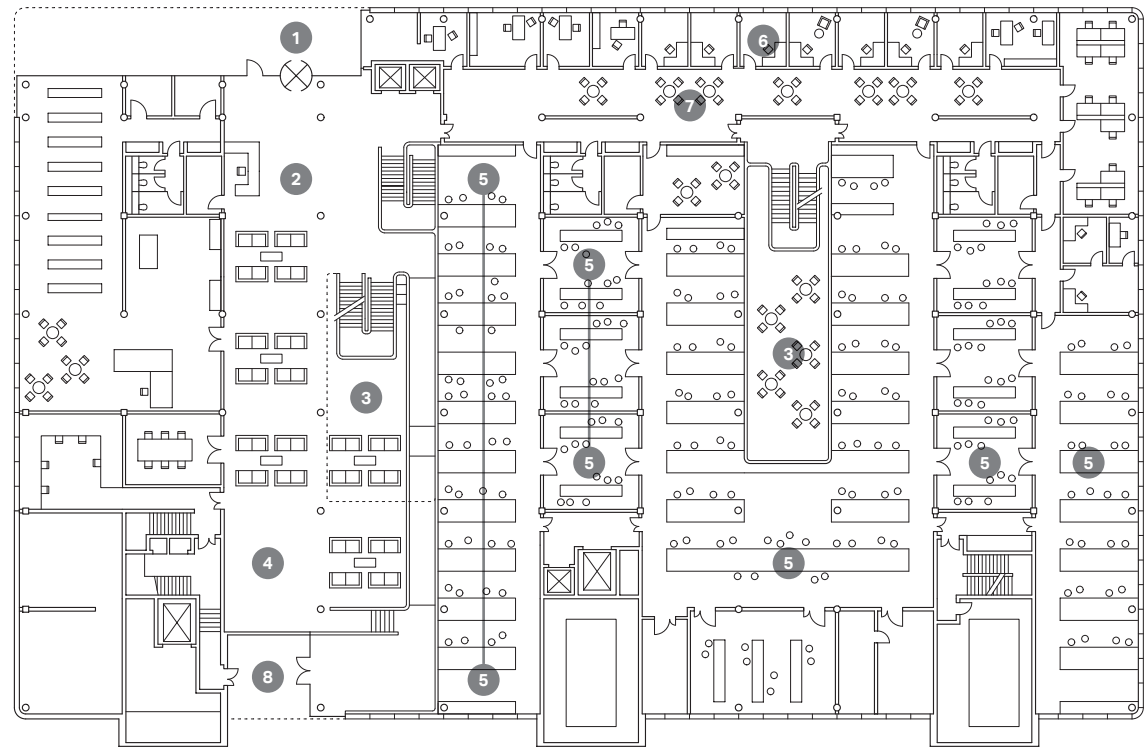


6 Cladding studies. The distinctive spectrum of greens visually harmonises with the mature planting surrounding the site and creates a pixel effect that breaks down the scale of the building.

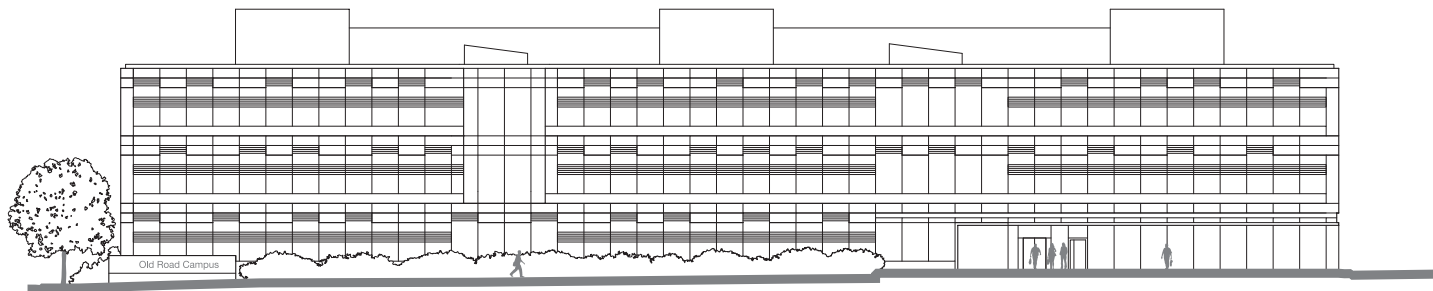


7 Concept sketches showing the high-performance cladding system with louvres, cores and cladding. Glass and aluminium panels wrap the building, with external louvres protecting against solar gain.

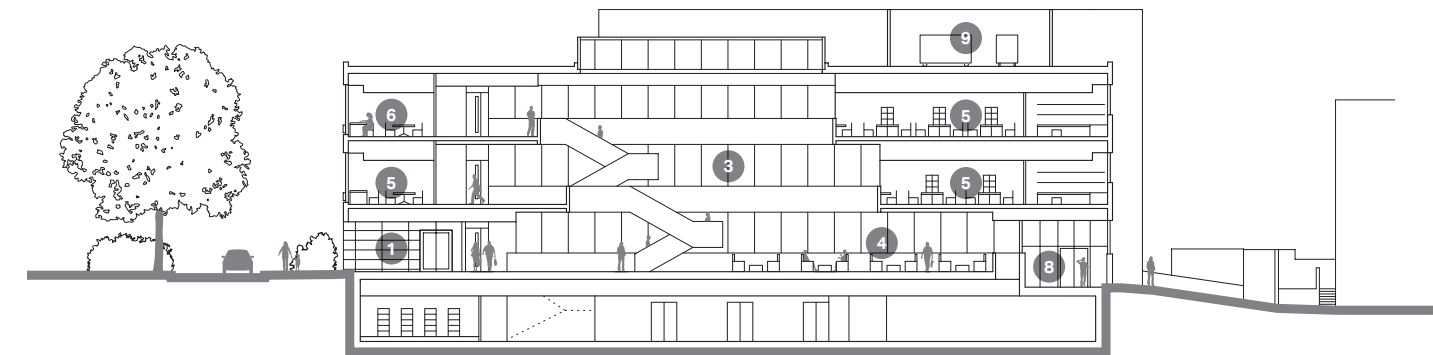
- Key**
- | | |
|--------------|------------------------------|
| 1 Entrance | 6 Write-up space/
offices |
| 2 Reception | 7 Breakout space |
| 3 Atrium | 8 Rear entrance |
| 4 Café | 9 Plant |
| 5 Laboratory | |



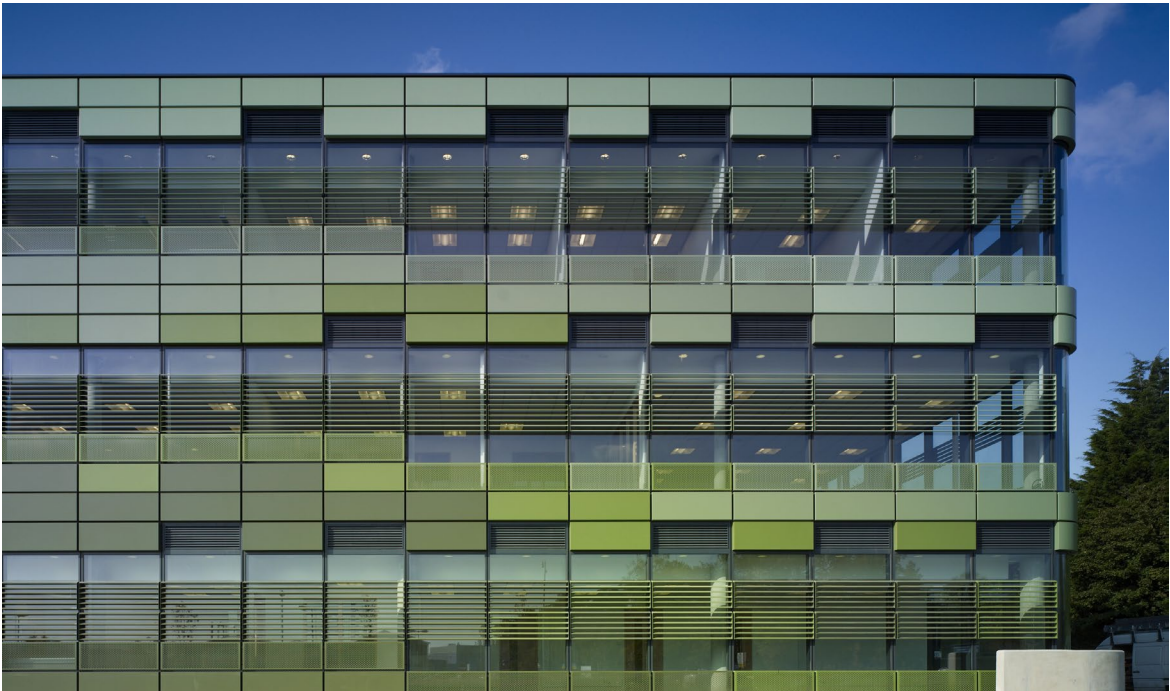
- Key**
 1 Entrance
 2 Reception
 3 Atrium
 4 Café
 5 Laboratory
- 6 Write-up space/
offices
 7 Breakout space
 8 Rear entrance
 9 Plant



10 East elevation.



11 Cross-section.





12 View of the recess, which breaks up the mass of the long facade. The orientation-specific facade appears more opaque on the western elevation and more transparent at the north-eastern entrance.



13 Lab spaces in use. The building's highly efficient plant reduces the energy consumption of this high-tech research building.





14 Atrium staircase with cast in-situ concrete. The building's social heart includes a café and a knowledge centre.



15 Feature staircase in use. The atria offer direct visual connections into the labs, allowing a glimpse of research in process.

Photo archive

Photos of the Make team members, past and present, who have worked on projects for the university.



Cara Bamford



Mojdeh Moasser



Gavin Mullan



Justin Nicholls



Ian O'Brien



Alice Cadogan



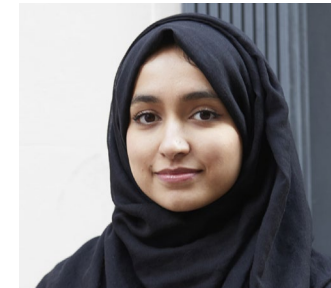
Martina Contento



Matthew Critchley



Michelle Evans



Sahar Pathan



Thi Pham



James Roberts



Matthew Seabrook



Stuart Fraser



Sepideh Heydarzadeh



Chris Jones



Masaki Kakizoe



Tom Sharp



Ken Shuttleworth



Nicholas Stamford



Rebecca Thomas



Robert Lunn



Pete Matcham



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Tracey Wiles



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