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# SKOLKOVO INSTITUTE OF SCIENCE AND TECHNOLOGY

SKOLKOVO, RUSSIA

JANUARY 18, 2018



**October 2013**



**April 2014**



**November 2015**

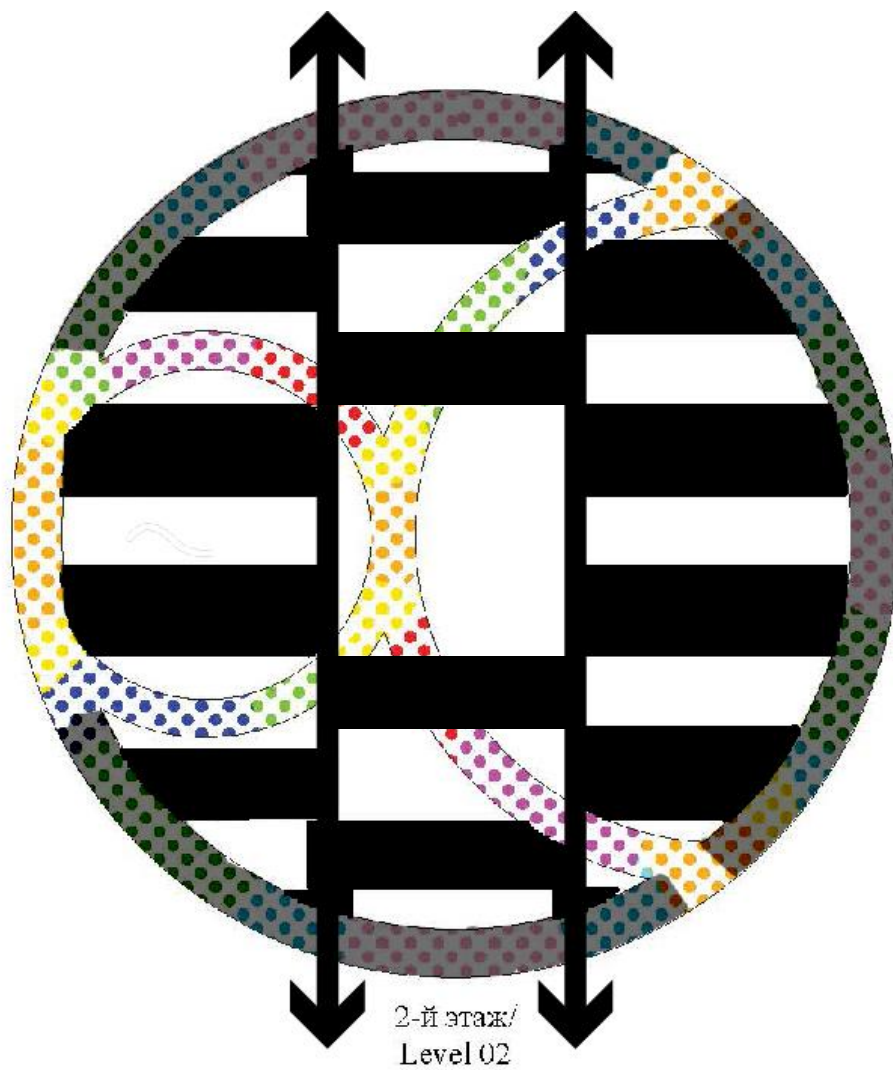


**September 2016**

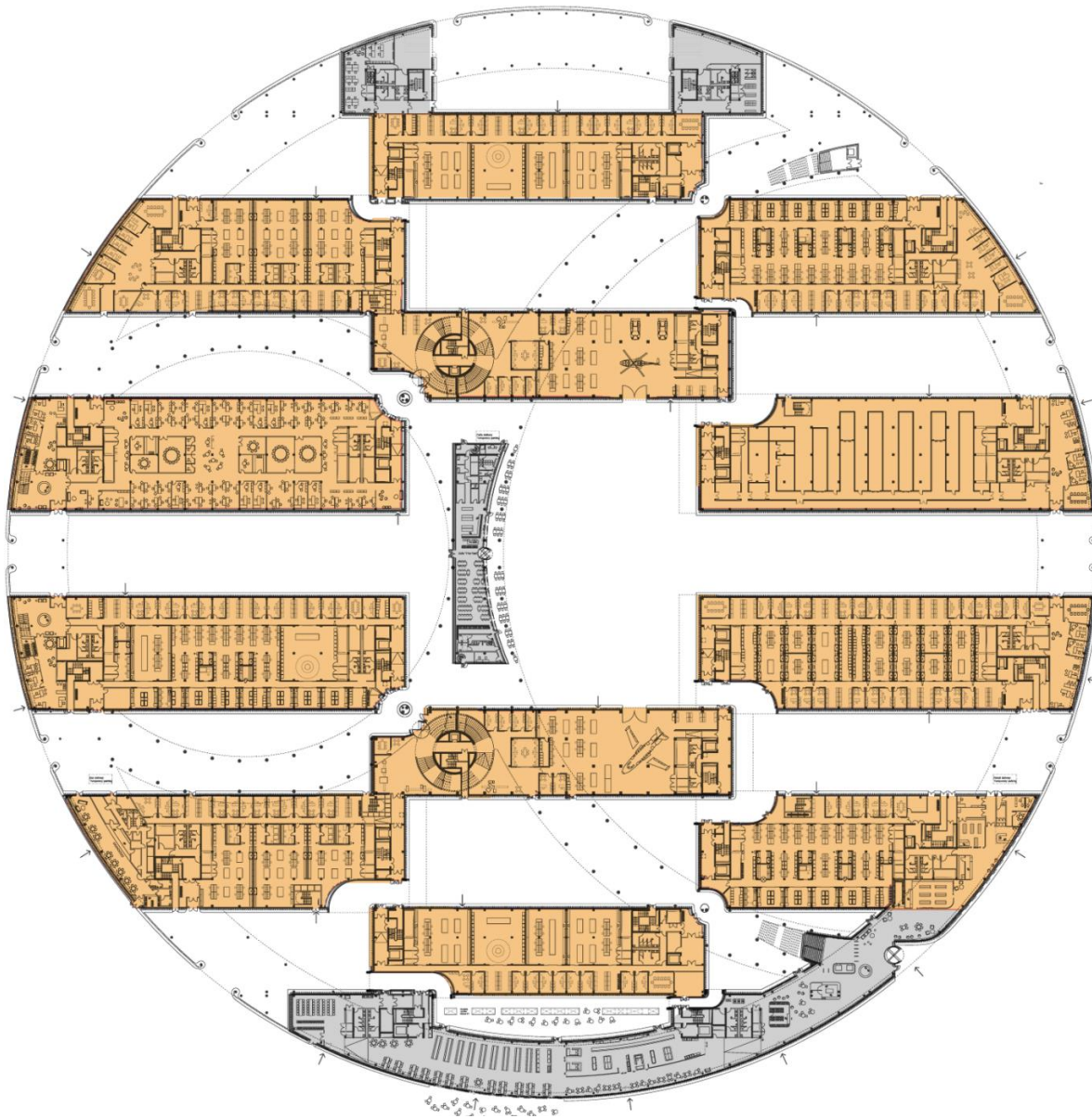


**December 2017**

# CONNECTING RESEARCH

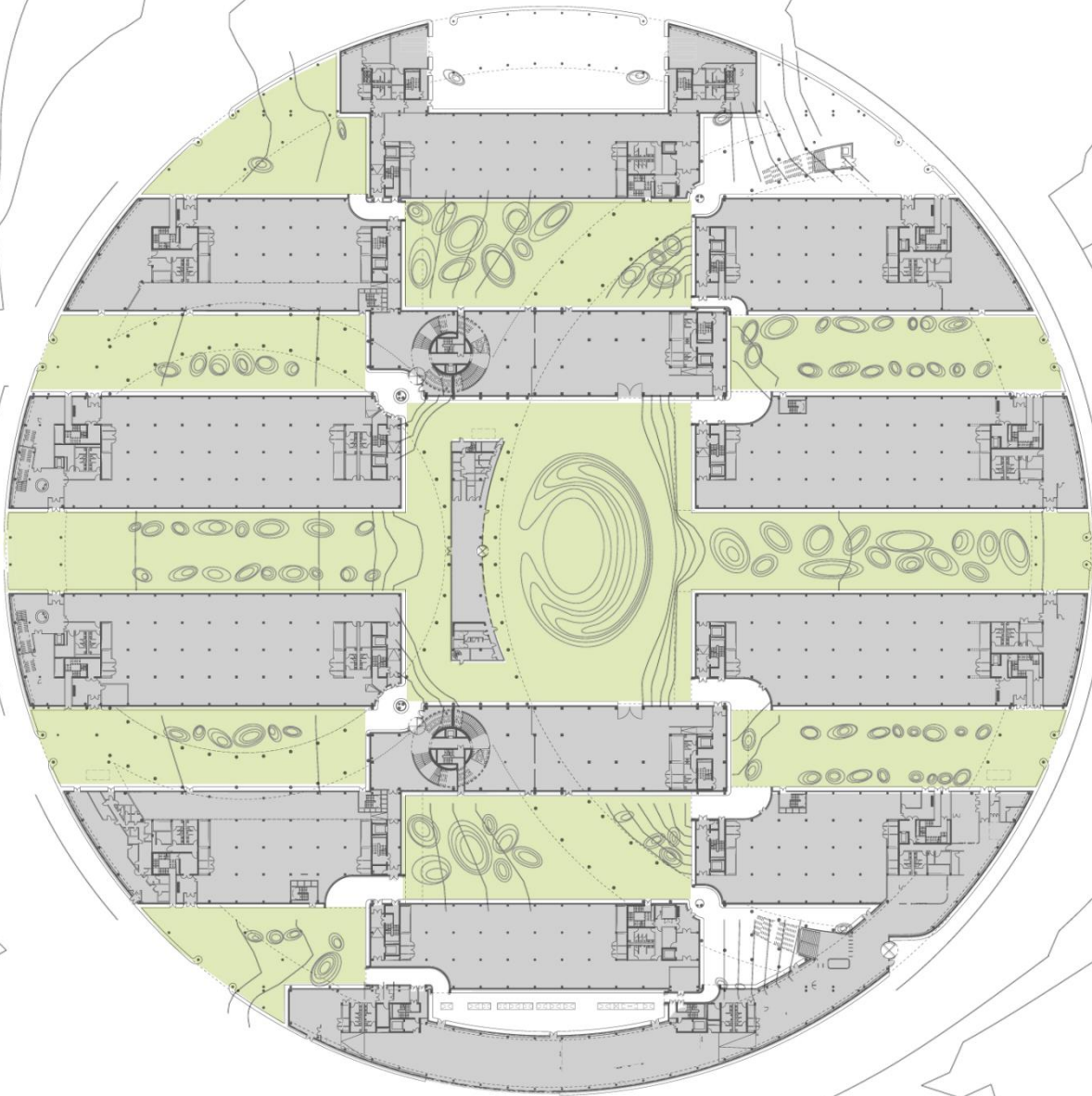


# FLEXIBLE RESEARCH BARS





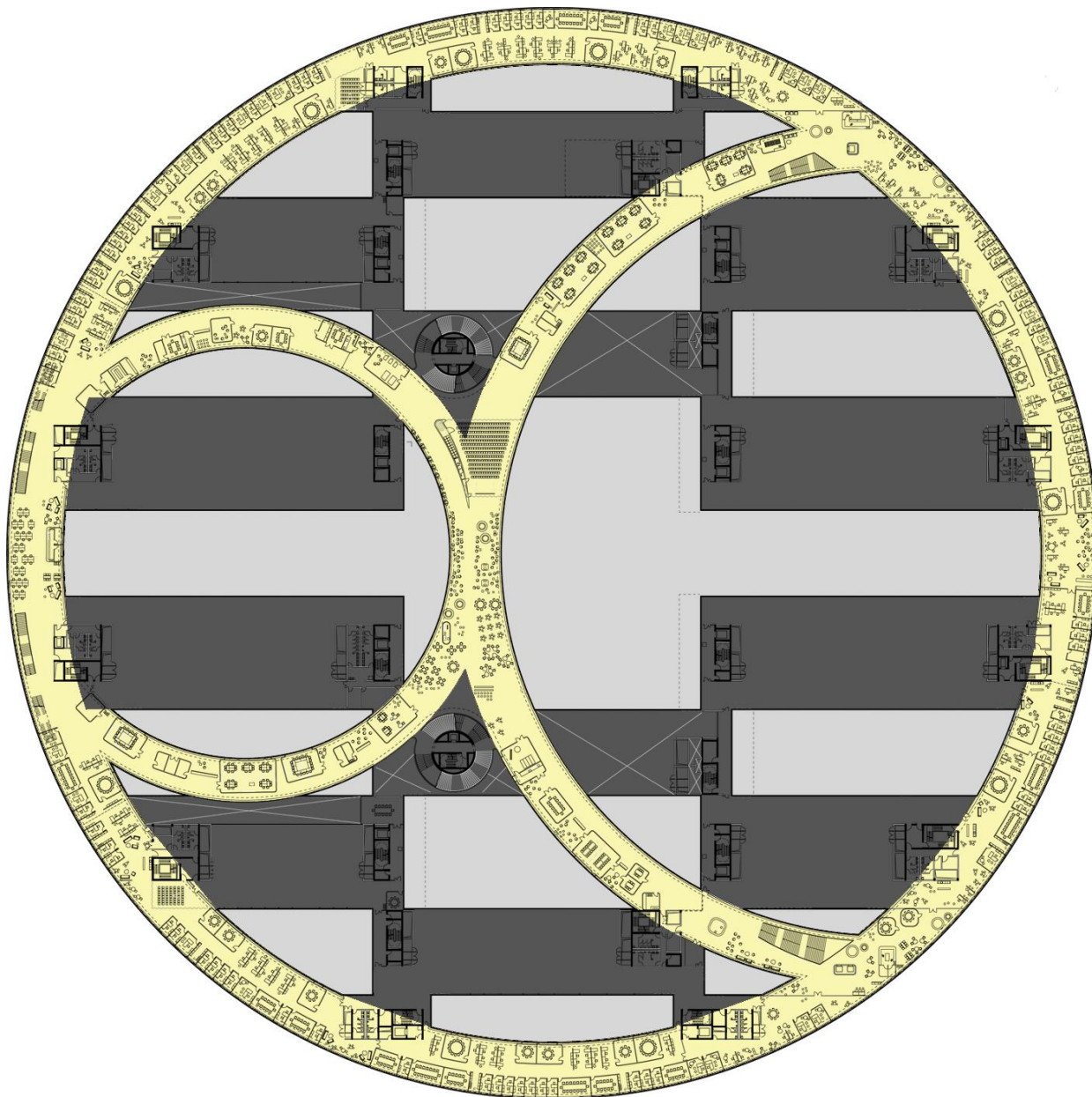
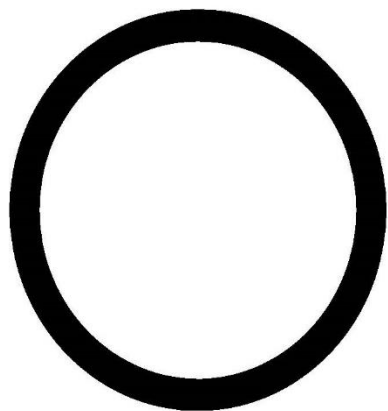
# GREEN SPACES





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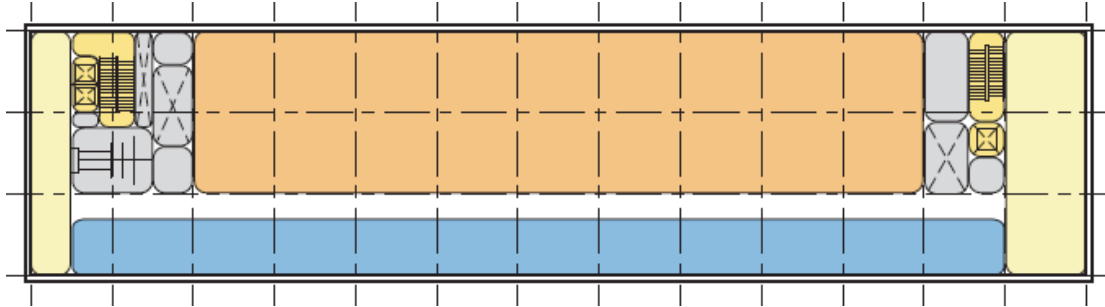
# RINGS



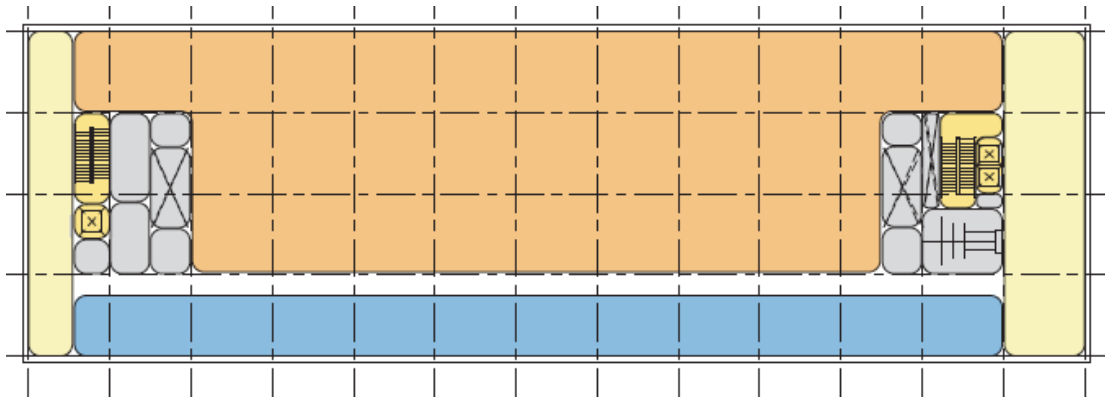


# RESEARCH BARS | WIDTH VARIATIONS

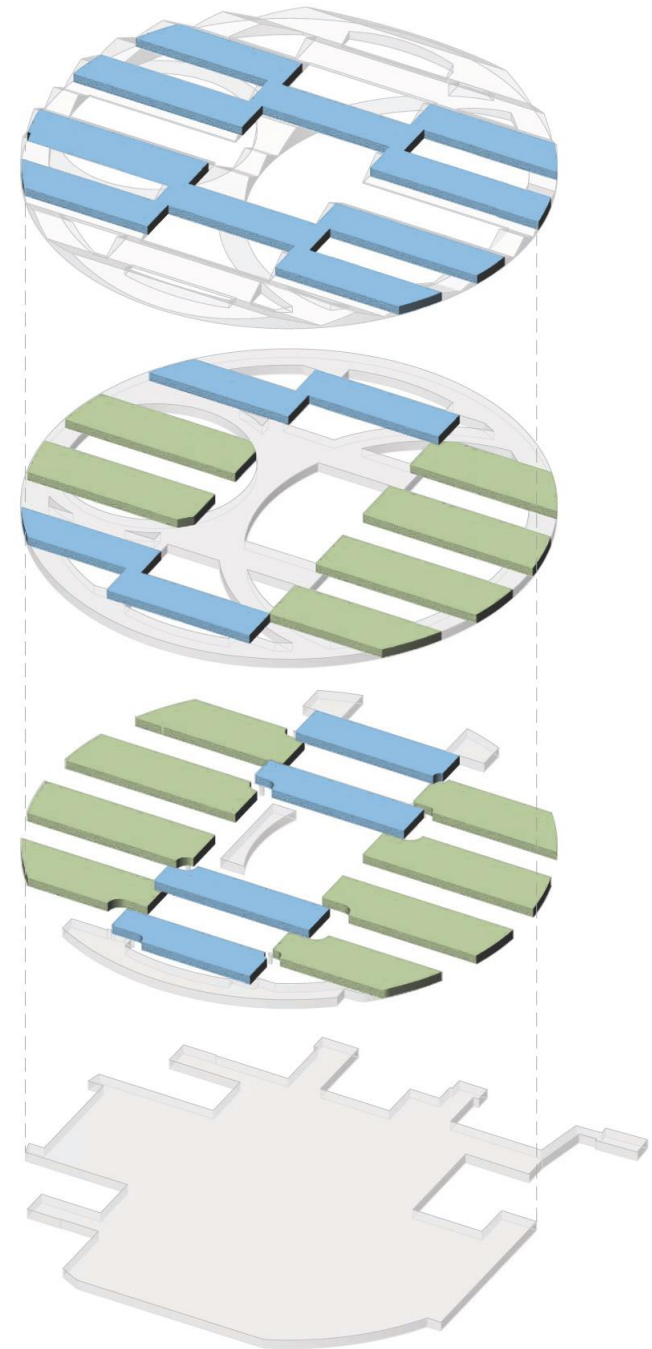
## 21 METER BUILDINGS



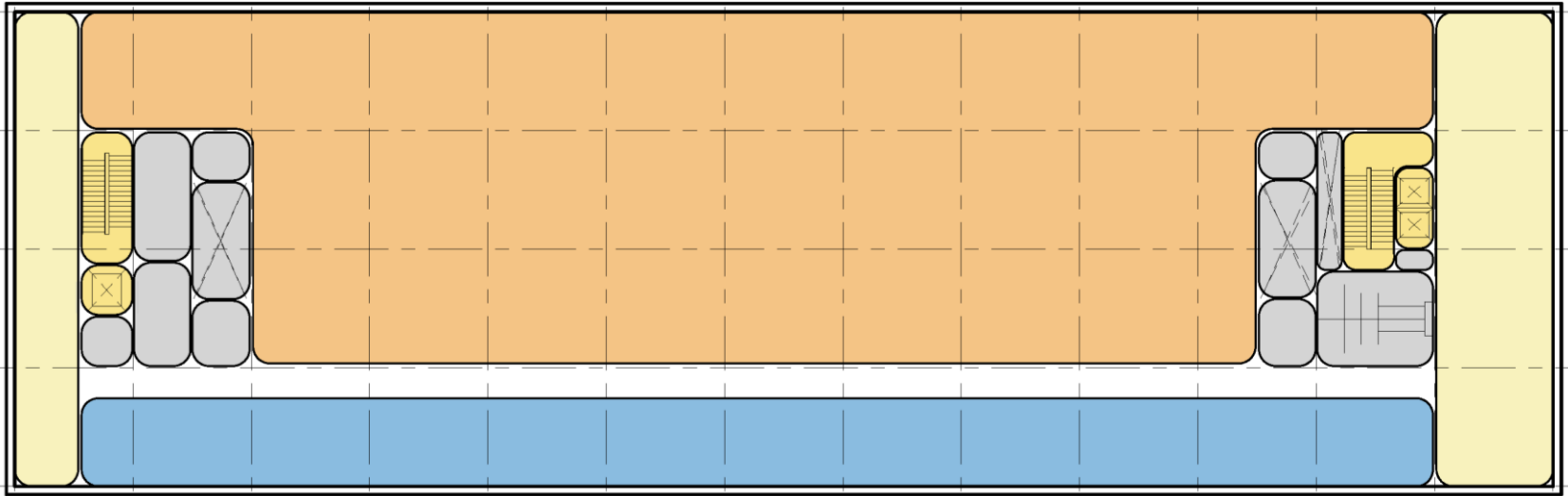
## 28 METER BUILDINGS



- LAB
- LAB SUPPORT
- OFFICE
- MECHANICAL
- VERTICAL CIRC
- COMMON SPACE

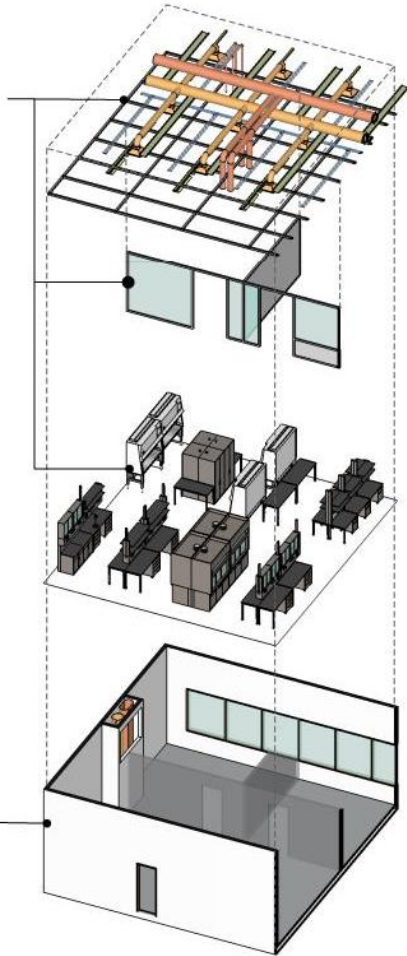


# RESEARCH BARS | SIMPLE FLEXIBILITY

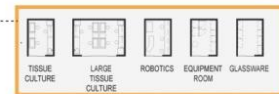
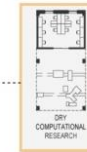


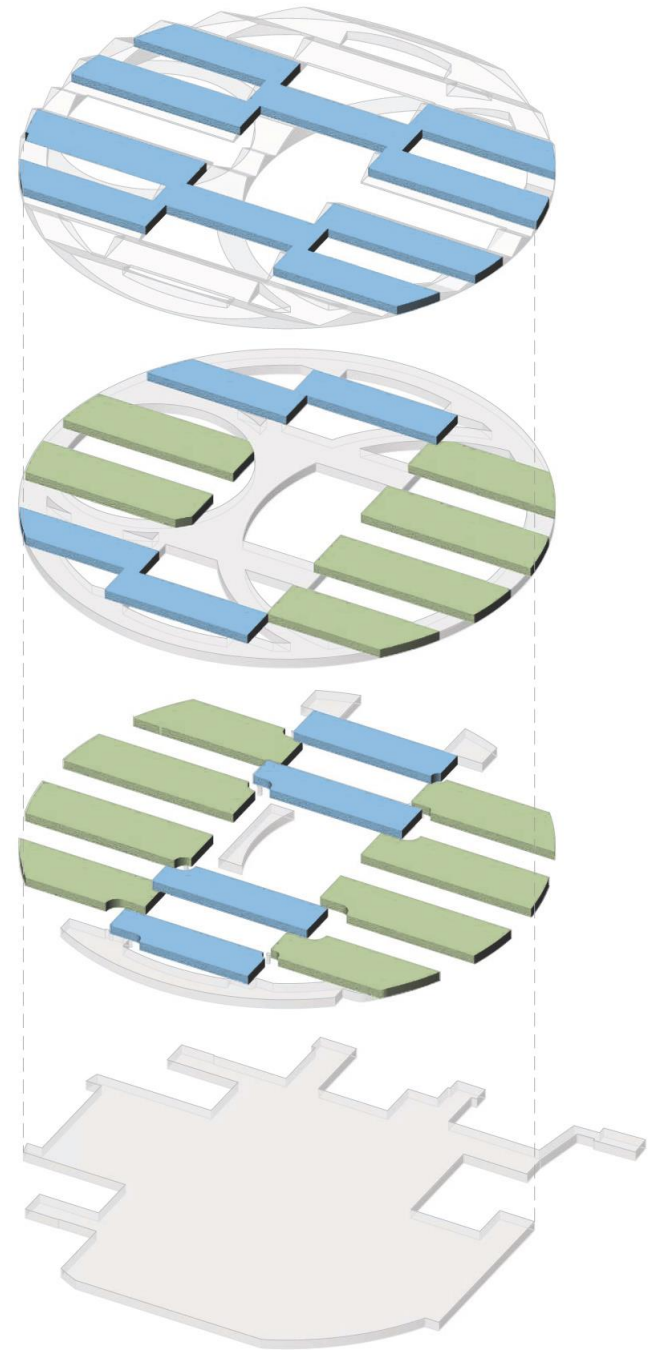
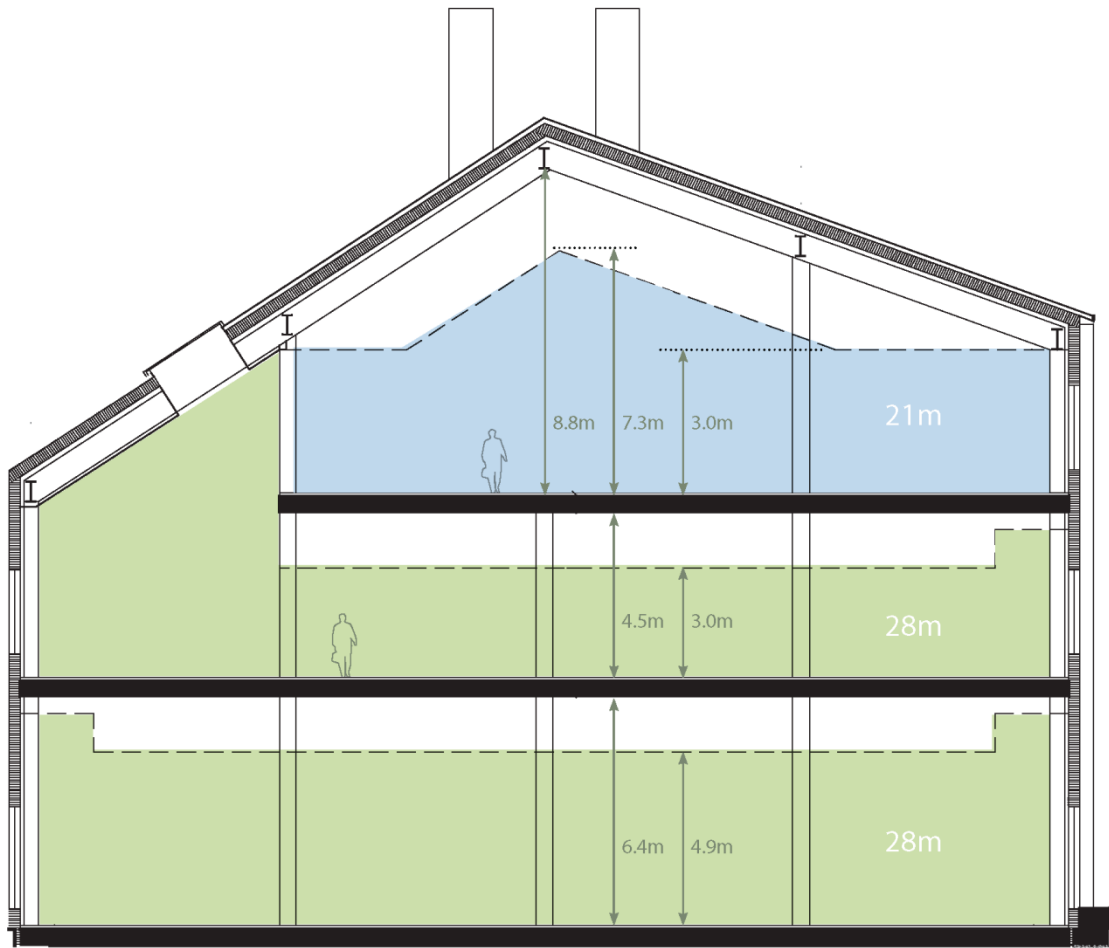
# FLEXIBLE KIT OF PARTS

Media Ceiling  
Services  
Demountable Partitions  
Lab Casework

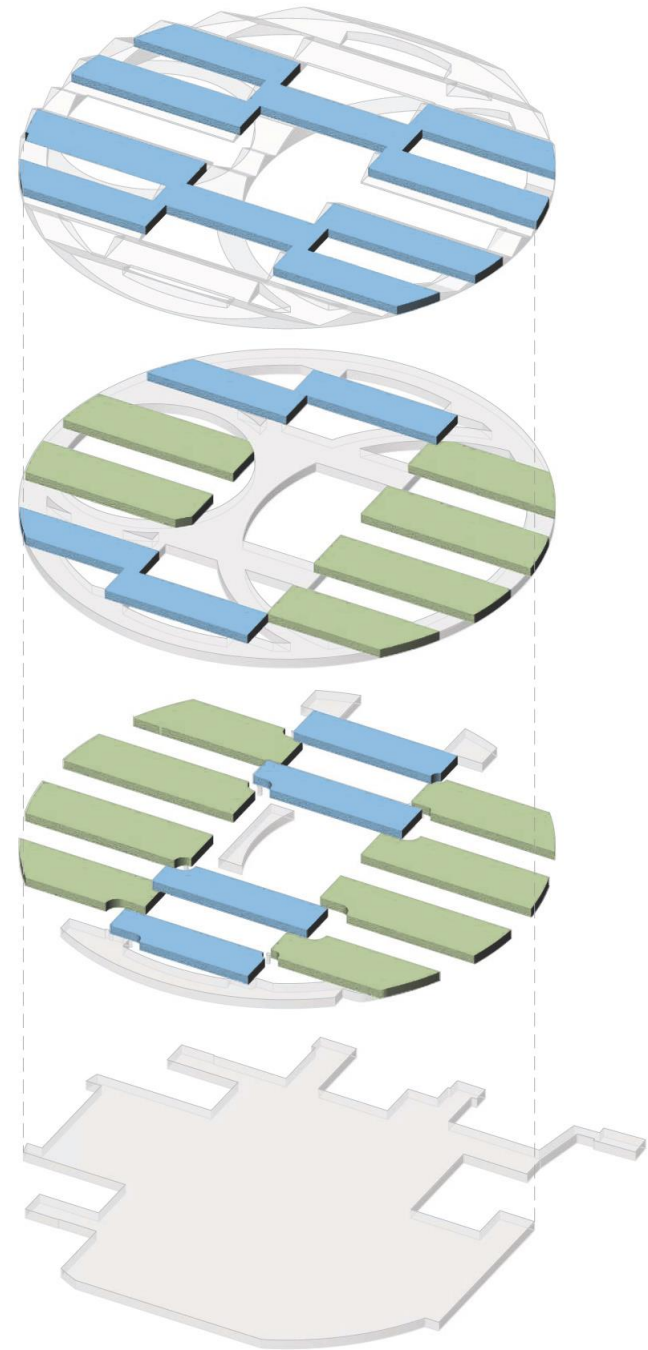


Building Shell

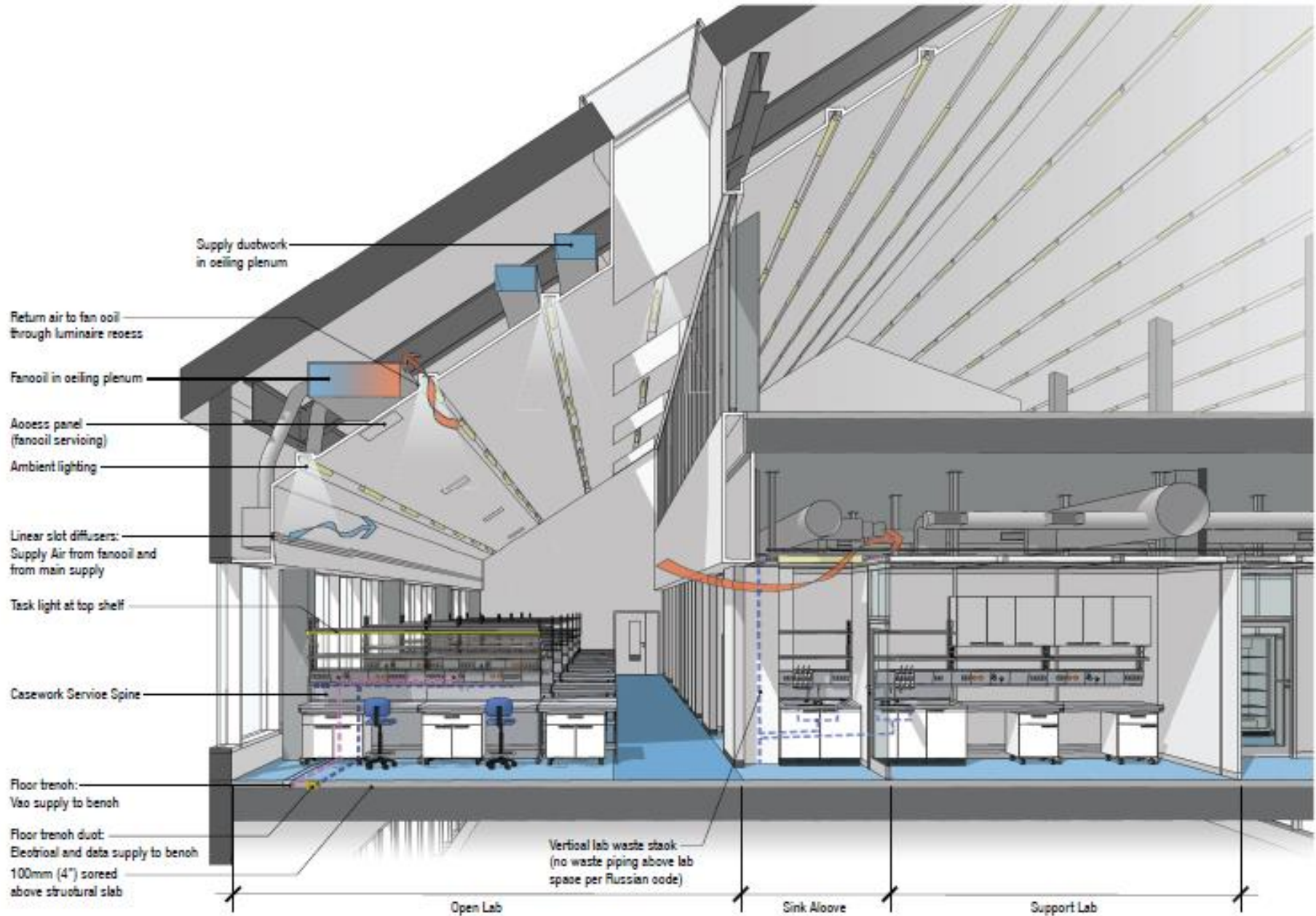




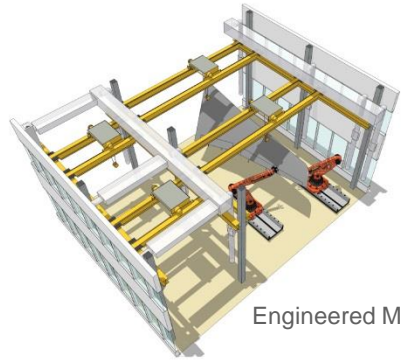




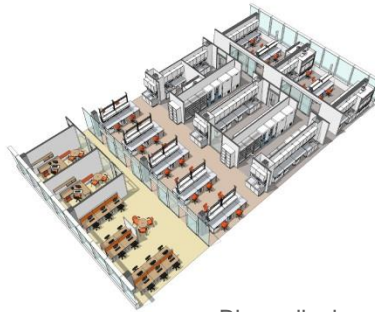
# SKOLTECH | SUSTAINABLE PRINCIPLES



# SKOLTECH | ADAPTABLE MODULES



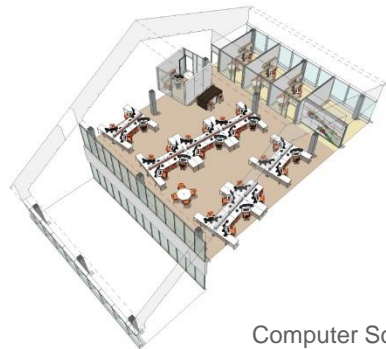
Engineered Materials



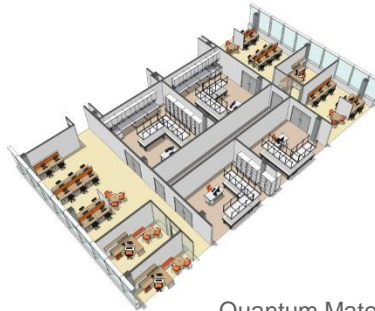
Biomedical



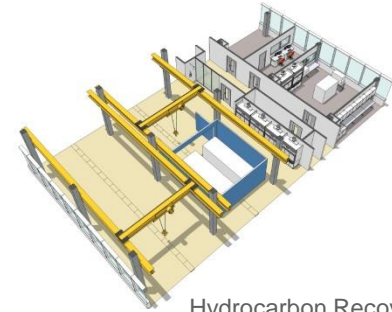
Space



Computer Science



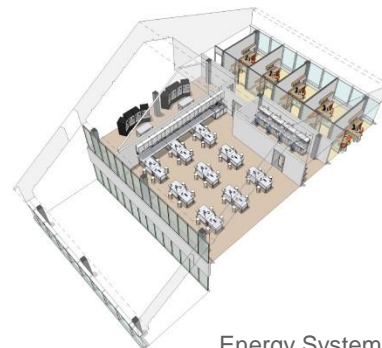
Quantum Materials



Hydrocarbon Recovery



Energy Storage



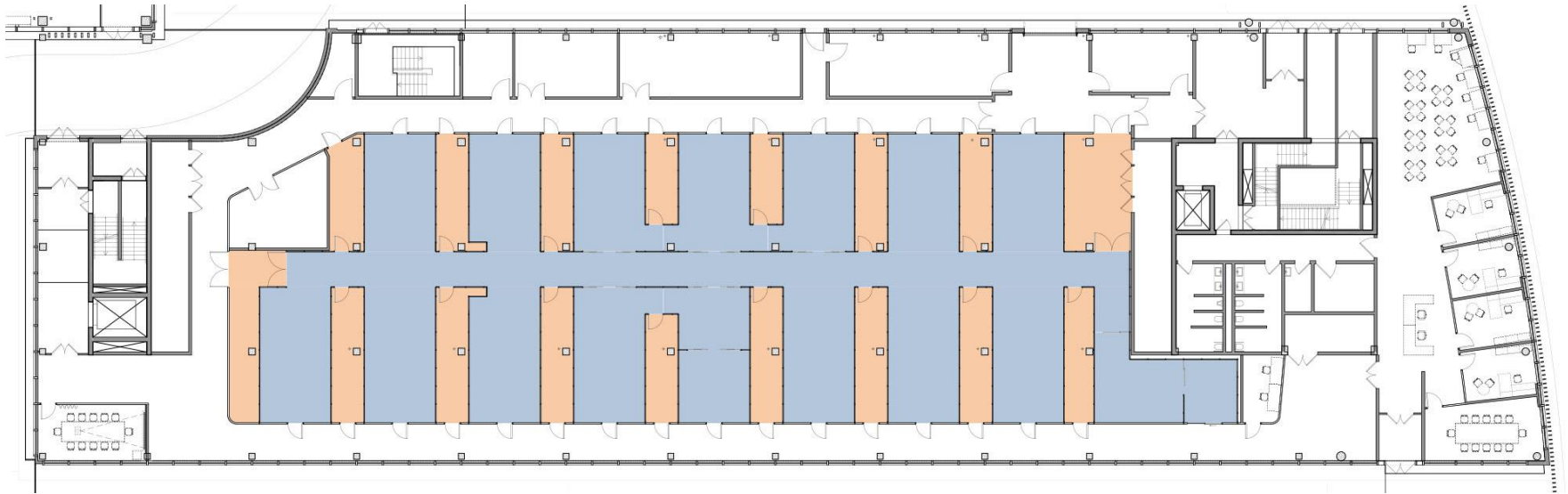
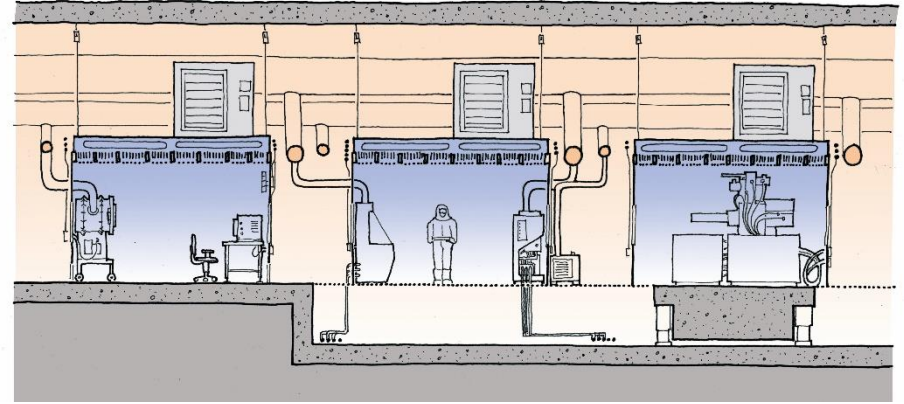
Energy Systems



Entrepreneurship & Innovation

## SHARED FACILITIES | CLEANROOM

- Bay & Chase Organization
- Typical: ISO Class 5
- Lithography: ISO Class 4
- Isolated Foundation
- 500 Square Meters Under Filter





# SHARED RESEARCH FACILITIES | BASEMENT

CENTRAL MFG SHOPS

STUDENT SHOPS

ADVANCED IMAGING

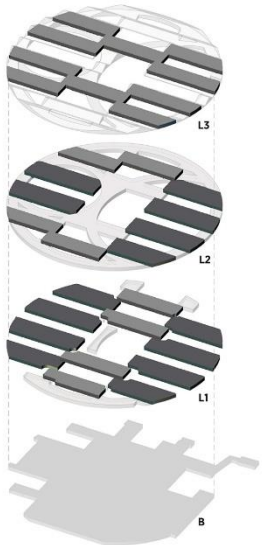
LOW VIBRATION SUITE

GENETIC SCREENING

HPC

VIVARIUM

FUTURE



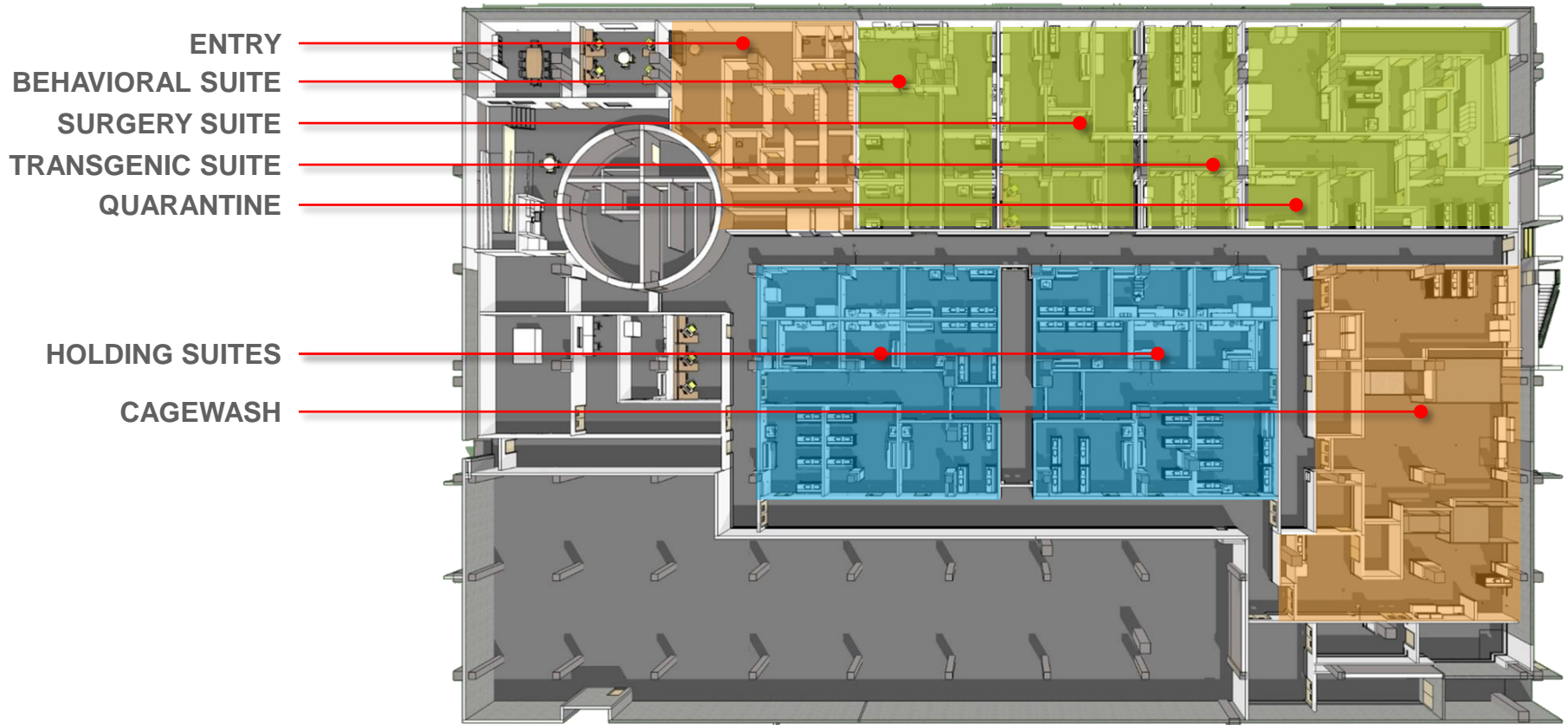
# VIVARIUM



## CAPACITY

- Transgenic Holding 480 Cages
- Holding Suites 4,240 Cages
- Quarantine 880 Cages
- Behavioral Testing 320 Cages

**TOTAL 5,920 Cages**



# SHARED RESEARCH FACILITIES

## ADVANCED IMAGING

## GENETIC SCREENING



- 1 Optical Imaging
- 2 Advanced Imaging
- 3 Office
- 4 Prep Lab
- 5 Microscope Room
- 6 Microtomy Room
- 7 Slide Scanning Room
- 8 Pump Chase
- 9 Control Room
- 10 Lounge



- 1 Genetic Screening Lab
- 2 Tissue Culture Room
- 3 Opera Reader Room
- 4 Freezer Room
- 5 Imaging Room
- 6 RO Equipment Room



# SHARED RESEARCH FACILITIES

## MACHINE SHOPS



- 1 Typical Machine Shop
- 2 Hand Tools
- 3 Milling & Lathing
- 4 Cutting
- 5 Sheet Metal
- 6 3D Prototyping
- 7 Storage
- 8 Finishing
- 9 Computing
- 10 Project Lab





















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