Project showcase

Our experienced and knowledgeable staff understand the science behind the built environment. Partners in the building materials and construction community — architects, manufacturers, contractors, consultants, building owners and regulatory authorities — trust UL for the knowledge and expertise we provide. Our testing services help ensure performance of building products, systems and structures, meet regulatory demands, and protect brand value.

Our team of highly specialized professionals operate out of global centers of excellence locations based in Chicago, Montreal, Toronto and England. We provide a wide range of services including:

- Laboratory Performance Mock-Up Testing
- Field Performance Testing
- Advisory Services
- Research and Design Testing
- Life Safety and Security Building Inspections

Discover our expansive portfolio of services through the following project highlights.

Left picture: water penetration testing of windows, curtain walls and doors using dynamic pressure.
Interactive project showcase map

Click the bubbles below to view project details

- Location
- Laboratory performance mock-up testing
- Field performance testing
- Location
- Advisory services
- Location
- R&D
- Location
- Life safety and security building inspections
About laboratory performance mock-up testing

UL’s dynamic team of highly specialized and experienced staff can test your curtain wall and façade mock-ups to the American Architectural Manufacturers Association (AAMA), ASTM, Centre for Window and Cladding Technology (CWCT) and European Standards (EN), as well as to project specifications.

We can test for extreme weather conditions ranging from air infiltration, water penetration (static and dynamic), wind loads and impact testing.
Laboratory performance mock-up testing

**Arsenal Stadium**
London, England
Service: Performance Mock-Up Testing
Test Method: ASTM and AAMA
Laboratory: Telford, England
Building type: Stadium
Architect: Populous
UL's client: Parry Bowen Ltd
UL project completed: 2006

**Heathrow Terminal 5**
London, England
Service: Performance Mock-Up Testing
Test method: CWCT Sequence B
Laboratory: Telford, England
Building type: Airport
Architect: Richard Rogers
UL's client: Hathaway
UL project completed: 2007

**Bullring Shopping Centre**
Birmingham, England
Service: Performance Mock-Up Testing
Test method: CWCT TN75, CWCT TN76
Laboratory: Telford, England
Building type: Shopping Center
Architect: Future Systems
UL's client: Laing
UL project completed: 2007
Laboratory performance mock-up testing

Amherst College Science Building
Amherst, Massachusetts, USA

- Service: Performance Mock-Up Testing
- Test Method: AAMA 501 (as applicable)
- Laboratory: Chicago, Illinois
- Building type: School
- Architect: Payette
- UL's client: Novum Structures LLC
- UL project completed: 2017

Essex on the Park
Chicago, Illinois, USA

- Service: Performance Mock-Up Testing
- Test Method: AAMA 501 (as applicable)
- Laboratory: Chicago, Illinois
- Building type: Residential
- Architect: Heartshorne Plunkard
- UL's client: Power Construction Chicago Heights Glass
- UL project completed: 2017

Hoxton Hotel
Chicago, Illinois, USA

- Service: Performance Mock-Up Testing
- Test method: AAMA 501 (as applicable)
- Laboratory: Chicago, Illinois
- Building type: Hotel
- Architect: Adjmi Architects and Chicago's GREC Architects
- UL's client: Power Construction, Northern Glass
- UL project completed: 2018
Laboratory performance mock-up testing

**Queens Plaza Park (Sven)**
Queens, New York

- Service: Performance Mock-Up Testing
- Test Method: [AAMA 501](#) (as applicable)
- Laboratory: Varennes, Quebec
- Building type: Residential
- Architect: Studio Gang with executive architect Hill West
- UL's client: BPDL Precast Concrete
- UL project completed: 2019

**One Vanderbilt**
New York City, New York, USA

- Service: Performance Mock-Up Testing
- Test Method: [AAMA 501](#) (as applicable)
- Laboratory: Varennes, Quebec
- Building type: Skyscraper
- Architect: Kohn Perdersen Fox
- UL's client: Hines
- UL project completed: 2017

**Boston University Data Science Building**
Boston, Massachusetts, USA

- Service: Performance Mock-Up Testing
- Test method: [AAMA 501](#) (as applicable)
- Laboratory: Toronto, Ontario
- Building type: Office/Education
- Architect: KPMB Architects
- UL's client: Ferguson Neudorf Glass Inc.
- UL project completed: 2020
Laboratory performance mock-up testing

University of Oregon
Eugene, Oregon, USA

Service: Performance Mock-Up Testing
Test Method: AAMA 501 (as applicable)
Laboratory: Toronto, Ontario
Building type: Office / Education
Architect: BORA / Ennead
UL’s client: Ferguson Neudorf Glass Inc.
UL project completed: 2019

450 S Main Street
Seattle, Washington, USA

Service: Performance Mock-Up Testing
Test method: AAMA 501 (as applicable)
Laboratory: Toronto, Ontario
Building type: Residential
Architect: KMD Architects Inc.
UL’s client: BV Glazing Systems Ltd.
UL project completed: 2019
About field performance testing

UL’s full-service independent laboratories with field-testing experts in North America and England, conduct on-site assessments to determine compliance with American Architectural Manufacturers Association (AAMA), Centre for Window and Cladding Technology (CWCT), National House Building Council (NHBC), and other building requirement standards.

By conducting field tests, stakeholders mitigate risk and reduce unexpected costs associated with potential future performance issues. Field testing is an accurate and reliable tool for establishing trust in a new and existing building envelope system.
Field performance testing

National Gallery of Canada
Ottawa, Ontario

Service: Field Performance Testing and Forensic Investigations
Test method: ASTM
Laboratory: Ottawa, Ontario
Building type: National Art Gallery
Architect: Moshe Safdie
UL's client: National Gallery of Canada
UL project completed: On-call understanding offer for ongoing provision of services.

Parliamentary Precinct | West Block
Ottawa, Canada

Service: Field Performance Testing
Test method: ASTM
Laboratory: Montreal, Quebec
Building type: Government
Architect: Arcop/FGMA
UL's client: seele
UL project completed: 2018

Olympic Stadium
Montreal, Quebec, Canada

Service: Field Performance Testing
Test method: ASTM
Laboratory: Montreal, Quebec
Building type: Stadium
Architect: Provencher Roy
UL's client: Vitreco
UL project completed: 2016
Field performance testing

Thomas Waters Elementary School
Chicago, Illinois USA

Service: Field Performance Testing
Test method: ASTM
Laboratory: Chicago, Illinois
Building type: School
UL’s client: IG Commercial
UL project completed: 2020

Bailey Hall – Illinois Institute of Technology
Chicago, Illinois USA

Service: Field Performance Testing
Test method: ASTM
Laboratory: Chicago, Illinois
Building type: School
Architect: Corvias, Gilbane, Dirkdenison
UL’s client: IG Commercial
UL project completed: 2020

Battersea Power Station
London, England

Service: Field Performance Testing
Test method: CWCT Section 9
Laboratory: Telford, England
Building type: Commercial and residential
Architect: Rafael Vinoly Architects, Ian Simpson Architects, dRMM
UL’s client: Cantifix, seele GmbH, Thorpe Precast, Permasteelista (England) Ltd, Martifer
UL project completed: Ongoing
About advisory services

UL’s building envelope advisory services include technical assessments and construction commissioning services. Building owners and managers can rely on comprehensive information on the condition of the building envelope, future performance expectations and solutions to maintain acceptable performance for an extended service life.
Advisory services

**Olympic Stadium**
Montreal, Canada

Service: Advisory Services
Laboratory: Montreal, Canada
Building type: Stadium
Architect: Provencher-Roy
UL's client: Regie des installations Olympiques
UL project completed: 2018

**Bank of Canada Headquarters**
Ottawa, Canada

Service: Advisory Services
Laboratory: Ottawa, Ontario
Building type: Office
Architect: Arthur Erickson
UL's client: Bank of Canada
UL project completed: 2009

**Canadian War Museum**
Ottawa, Canada

Service: Advisory Services
Laboratory: Ottawa, Ontario
Building type: Museum
Architect: Moriyama & Teshima Architects
UL's client: Canadian War Museum
UL project completed: on-going
Advisory services

Musee Des Beaux Arts
Quebec, Canada

Service: Advisory Services
Laboratory: Varennes, Quebec
Building type: Museum
Architect: Provencher Roy & Associes Architectes
UL client: Provencher Roy & Associes Architectes
UL project completed: 2016

Isabella Steward Garner Museum
Chicago, Illinois, USA

Service: Advisory Services
Laboratory: Northbrook, Illinois
Building type: Museum
UL's client: Isabella Stewart Garner Museum
UL project completed: 2013
About research and development testing

UL understands that some custom-made systems, which are purpose built for specific projects, may require a higher level of testing during the development stage. Sometimes the testing required is outside the parameters of existing test methods. When this happens, we work with customers to test these systems to an agreed upon and customized testing plan.

The test plans are often based on existing test standards and are used to detect potential errors with the design of custom-made systems. This helps ensure the systems meet their project requirements.
R&D testing

Etihad Stadium, Manchester City FC
Manchester, England

Service: Quality Assurance
Test Type: Dynamic Weather Test based on CWCT guidance
Laboratory: Telford England
Building type: Football Stadium
Architect: Arup
UL’s client: John Laing
UL project completed: 2000
About life safety and security building inspections

UL has the expertise to assist you in optimizing the compliance of your building’s life safety systems to international code requirements. Our menu of services covers the life cycle of the building, including building inspection, precommissioning, training, and annual life safety reviews; as well as a review and assessment of building security needs.

UL understands complex construction requirements across the globe, and we customize services to meet customer needs.
Life safety and security building inspections

**Kempinski Grand Hotel Des Bains**
St Moritz, Switzerland

- Service: Building Inspections
- Test method: BIP
- Office: Chicago, Illinois
- Building type: Hotel
- UL's client: Kempinski
- UL project completed: 2019

**Kempinski Marza Malaz**
Doha, Qatar

- Service: Life Safety and Security Building Inspections
- Test method: BIP NFPA 1, 10, 25, 72, 101, 708
- Office: Chicago, Illinois
- Building type: Hotel
- UL's client: Kempinski
- UL project completed: 2019

**Burj Rafal Hotel Kempinski**
Riyadh, Saudi Arabia

- Service: Life Safety and Security Building Inspections
- Test method: BIP NFPA 1, 10, 25, 72, 101, 708
- Office: Chicago, Illinois
- Building type: Hotel
- UL's client: Kempinski
- UL project completed: 2019
Life safety and security building inspections

Kempinski Hotel Mokika22
St. Petersburg, Russia

Service: Life Safety and Security Building Inspections
Test method: BIP NFPA 1, 10, 25,72,101, 708
Office: Chicago, IL
Building type: Hotel
UL’s client: Kempinski
UL project completed: 2019
To know more visit ul.com/BuildingEnvelope or write to BuildingEnvelopeQuote@ul.com