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Royal Architectural Institute of Canada
Institut royal d'architecture du Canada

Workshop: From Point Cloud to BIM with Revit

FAQs

Who can benefit from the course?

- Architects, engineers, construction and project managers, contractors and conservation professionals working within the heritage conservation industry;
- Public sector employees working with built heritage assets;
- Anyone with interest in digital workflows for heritage building information models.

What will the course cover?

- Building Information Modeling for Heritage and Existing Conditions (HBIM);
- The complex and unique challenges in managing a BIM project for heritage and existing conditions;
- Managing large and diverse datasets and file size;
- Selecting the appropriate level of detail and model tolerance for your project;
- How to maximize the efficiency of your project by applying simple fundamental tips for HBIM
- Hands-on, step-by-step techniques for modelling basic building elements to point cloud data including walls, slabs, windows, and ceilings;
- A trip to a designated heritage building with exclusive access for laser scanning.

What else does the workshop offer?

- Rare access to the lab, equipment, and experts at the Carleton Immersive Media Studio (CIMS) Lab;
- An illustrated tutorial that participants can take home outlining all the steps required to model basic building elements from point cloud;
- An opportunity to work with international experts in heritage conservation;
- The ability to ask instructors questions throughout the training;
- Advanced knowledge of cutting-edge technology;
- Networking with industry professionals;
- Social dinner.

Where does the course take place?

- Carleton Immersive Media Studio (CIMS) Lab at Carleton University in Ottawa, ON;
- A field trip to a heritage building in the National Capital Region.

Tell me about the Carleton Immersive Media Studio (CIMS)



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- Research centre dedicated to the advanced study of innovative, hybrid forms of reality capture, representation and fabrication to reveal and animate architecture and construction;
- Affiliated with the Azrieli School of Architecture and Urbanism at Carleton University in Ottawa, ON;
- Five areas of inquiry including digitization, Building Information Modeling (BIM), simulation, digitally assisted fabrication, and digitally assisted storytelling;
- International reputation working with public, private, and not-for-profit partners on projects that demonstrate new and emerging digital technologies for architectural rehabilitation and heritage conservation;
- More than 40 academic, institutional and industry partners including Politecnico di Milano, the Getty Conservation Institute, National Trust for Canada, ICOMOS Canada, Social Science and Humanities Research Council of Canada (SSHRC), Office of Public Works – Dublin, and Public Services and Procurement Canada (PSPC);
- Projects include documentation of the Tomb of Tutankhamen and Tomb of Nefertari; Church of Kuño Tambo, Perú, Kasbah de Taourirt, Ouarzazate, Morocco, and building information models for Canada's parliament buildings including West and Centre blocks, the Library of Parliament and the Parliament Hill topography;
- Multidisciplinary group of researchers of approximately 60 people.

What makes this workshop unique?

- Over the last decade, CIMS has been a pioneer in researching and developing BIM for Heritage;
- This is the first time that CIMS has worked with an outside group (RAIC) to offer continuing education.

When is the course?

November 15 – 17, 2019

How much does the workshop cost?

- \$2,000 for RAIC members;
- \$2,400 for non-members.



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What does the fee include?

- A weekend-long workshop;
- All learning materials;
- Field trip transportation;
- Lunches, Saturday night dinner, refreshments.

What is the maximum number of workshop participants?

Maximum of 20 participants.

How do I apply?

Register online: <https://raic.org/heritage>.

How do I become a member of the RAIC?

Join online: <https://raic.org/raic/how-join>.

Where do I learn more about CIMS?

Learn more online: <https://cims.carleton.ca/#/home>