bSI openBIM Awards 2020: Submission Guide

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WELCOME

Hi! My name is Susan Keenliside and it’s my privilege to bring you the bSI openBIM Awards Program. This submission guide has all the information you need to prepare for and execute a submission to the Awards program for 2020. This year is special as it will be the first time we launch with a custom awards platform. The user experience for submitters and jury members is improved by using the AwardForce platform to deliver the program, which helps everyone focus on what’s important here – great news stories about the use of openBIM! On behalf of the entire team, I welcome you to the 2020 season and wish you the best of luck with your submission(s).

Sincerely,

OBJECTIVE

The buildingSMART International Awards Program honours exemplary demonstrations of openBIM best practice or innovation within project delivery and lifecycle asset management in the built asset industry. Entries are judged on how effectively, or how innovatively, they have used these to overcome interoperability challenges.

WEBSITE

https://www.buildingsmart.org/bsi-awards/

The bSI website for the Awards Program is the homepage for all 2020 information, including access to the awards platform for submissions and judging. You can also refer to past project winners from 2018 and 2019 seasons.

Finally, don’t miss reading Appendix A: Message to Applicants at the end of the document for more detail about the program.
AWARD CATEGORIES
There are four (4) themes with a total of eight (8) categories to be awarded for the 2020 season:

1. Project Delivery Excellence
2. Operational Excellence
3. Research Excellence
4. Technology Excellence

- Design
- Asset Management
- Professional
- Technology Solution
- Construction
- Student
- IPD
- Handover

NOTE: Professional Research = Academic, Institutional or Industry Research projects

Refer to Appendix B: Award Category Definitions for detailed definitions and expectations per category.

CORE REQUIREMENTS
Satisfying the following core requirements is necessary to advance to the judging round:

1. Entries must demonstrate with evidence the deployment of one or more buildingSMART tools or standards.
2. Entries must be delivered in International English; the jury will not be able to assess content written in a language other than International English.
3. One submission = one project
4. One project can submit for multiple awards if they meet the criteria. When submitting a project for multiple awards, you have the option to use a copy of an existing submission within the awards platform.
5. There is no limit to the number of submissions a proponent can submit.
6. Past submissions that did not win an award in previous seasons are able to resubmit to any new season. Past award winners are not eligible for resubmission in the same category but may submit to other categories.
KEY DATES

<table>
<thead>
<tr>
<th>SUBMISSION PERIOD</th>
<th>CLOSING DATE: July 5th, 2020</th>
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<tbody>
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<td>• Submissions completed via Awards Platform</td>
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</tr>
<tr>
<td>• <a href="https://awards.buildingsmart.org">https://awards.buildingsmart.org</a></td>
<td></td>
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</table>

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<tr>
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<td>• Judging of submissions to determine Finalists</td>
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<table>
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<tr>
<th>FINALISTS ROUND</th>
<th>NOTIFIED: August 5th, 2020</th>
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<tr>
<td>• Marketing Material for Summit &amp; Website</td>
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<tr>
<td>• Summit Invitation to Present Project</td>
<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>SUMMIT CEREMONY</th>
<th>CEREMONY: October 5th, 2020</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Category Winners are awarded at the Summit Gala Ceremony</td>
<td></td>
</tr>
</tbody>
</table>

AWARD FORCE PLATFORM
Award Force is a web-based awards platform used by buildingSMART International and does not incur any cost to the applicant for its use. It requires a log-in profile that is created prior to entering the site; be sure to take note of your login credentials to use every time you log in to the platform.

https://awards.buildingsmart.org

SUBMISSION VIEW
Please refer to Appendix C: Submission View for a detailed walkthrough of the submission process on the awards platform.

SOFTWARE ECOSYSTEM
We want all software used on the project to be identified. Submitters may choose to create a graphic or process maps that demonstrate the software used, by which stakeholder, which IT infrastructure, in which project phase or information exchange or BIM use.

Refer to Appendix D: Sample Attachment Files to see an example of a software ecosystem map.
MODEL FILES
It is not expected for applicants to submit model files. Screenshots, video screen captures, and other forms of documentation are highly encouraged that show software workflows and model or data content.

USE CASES
We continue to encourage documentation of any BIM Use Case deployed on the project, although there is no requirement to complete a specific deliverable at this time.

For more information on use cases, visit https://www.buildingsmart.org/users/services/

https://ucm.buildingsmart.org

WHAT’S NEW IN 2020
- New category added: Technology Solution
  - This category is for vendors and product developers that is built off one or more of the openBIM schemas
  - The addition of this category is the first of its kind in the program
- New category added: Asset Management
  - This category is for asset owners and asset managers to demonstrate the use of openBIM within the asset lifecycle
- New awards added to the Project Delivery category
  - Integrated Project Delivery using openBIM
  - Handover using openBIM
- Use of an awards platform built specifically for programs like this

RESUBMISSION OF PAST PROJECTS
buildingSMART encourages the resubmission of projects to the awards program. In some cases, the past submission may not have fully demonstrated the accomplishments, or the project may have further advanced since the time of the last submission. PLEASE NOTE that previous winning projects are not eligible to resubmit to the same category they won an award for.

JURY PROCESS
buildingSMART is committed to a fair and transparent judging process. The Jury is selected on a volunteer basis from each of the buildingSMART chapters around the world. Each jury member attests to not being involved with any submission nor any of the projects being submitted. The jury is given the tools and background knowledge to be able to complete the judging activities fairly and consistently across all submissions. The jury will determine three (3) finalists for all award categories.
FINALISTS & WINNERS
All finalists will be asked to provide additional material to be promoted by buildingSMART. This includes a poster, a short video and an opportunity to present their project at the summit should they choose to attend. Winners will be announced at the Gala Dinner Awards Ceremony during the bSI Summit in Oslo, Norway from October 5th-8th, 2020. https://www.buildingsmart.org/event/international-standards-summit-oslo-2020/

GALA CEREMONY
The Gala Ceremony is the event where the buildingSMART openBIM Awards are announced. It occurs during the fall Standards Summit. It is a gala dinner for summit participants with the awards ceremony happening as the capstone entertainment and celebration. All submitters are invited to attend, regardless of final standing in the awards.

FREQUENTLY ASKED QUESTIONS
Submitters are encouraged to review the FAQ section of the website:
https://www.buildingsmart.org/bsi-awards/

OPT-IN TO BSI NEWS
Opt-in to the buildingSMART mailing list to receive all bSI news and regular communications:
https://mailchi.mp/56c7ea4b1b66/buildingsmart-opt-in-for-email-news

CONTACT
Submitters may contact awards@buildingsmart.org with questions or technical issues at any time.
Appendix A: Message to Applicants

Thank you for your interest in submitting a project to the buildingSMART International (bSI) openBIM Awards. buildingSMART created the Award program to recognize exemplary projects that have used buildingSMART solutions to effectively overcome interoperability challenges. The first awards were presented in Toronto in October 2014.

“It’s an opportunity for companies to showcase their application of buildingSMART open standard solutions to current challenges of interoperability faced during collaborative project delivery or asset operations”.

Richard Petrie, Chief Executive

To ensure your project has the greatest chance of winning an award, read carefully as we provide you with instructions and information about the submittal process. It is important to follow these instructions to present your submission in the clearest way possible to the jury.

The submissions will be judged on how well the evidence demonstrates the use of openBIM on the project, with highest ratings going to projects showcasing the use of bSI Standards, Tools, and Services. The submitters are encouraged to give evidence of non-openBIM use cases for additional credit.

From experience, we have found the competition to be very intense. buildingSMART ensures a fair competition by combining rigor and transparency in the submittal process, enabling the jurors to give all parties equal consideration. To this end, the evidence given must follow the instructions below and contain information that directly supports the submission and its use cases.

We recognize the time required to prepare a proper award submission, and our aim is to make the process as easy as possible. Concurrently, we respect the jury members’ time to thoroughly review each submission in a consistent method to make their best assessment. The more succinct and organized the evidence is in supporting the project use cases, the better the process is for everyone.

BEWARE: Copious, non-relevant, or insufficient information will be viewed as detrimental. The jury has a limited amount of time to review submissions. Ensure important information is explicit and not buried in large amounts of text.

IMPORTANT REMINDER: All communications from buildingSMART International regarding your submission will be sent only to the contact person provided in your award application. If you need to add contacts, please send your request with their contact information to awards@buildingsmartinternational.org. We will confirm your request. If you do not receive a response, assume the material is still only going to the listed person.

Best of luck,
bSI Awards Management Team
## Appendix B: Award Category Definitions

<table>
<thead>
<tr>
<th>THEME</th>
<th>CATEGORY</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Project Delivery Excellence</strong></td>
<td>Design using openBIM</td>
<td>An industry construction project with demonstrated excellence using openBIM during the Design phase of project delivery.</td>
</tr>
<tr>
<td></td>
<td>Construction using openBIM</td>
<td>An industry construction project with demonstrated excellence using openBIM during the Construction phase of project delivery.</td>
</tr>
<tr>
<td></td>
<td>Integrated Project Delivery using openBIM</td>
<td>An industry construction project with demonstrated excellence using openBIM in an Integrated Project Delivery (IPD) setting.</td>
</tr>
<tr>
<td></td>
<td>Handover using openBIM</td>
<td>An industry construction project with demonstrated excellence using openBIM for Handover of datasets and information during Project Close-out.</td>
</tr>
<tr>
<td><strong>Operational Excellence</strong></td>
<td>Asset Management using openBIM</td>
<td>Asset lifecycle information management with demonstrated excellence using openBIM in the Operations phase of a built asset.</td>
</tr>
<tr>
<td><strong>Research Excellence</strong></td>
<td>Professional Research using openBIM</td>
<td>Research excellence using openBIM led by academic, industry or government professionals.</td>
</tr>
<tr>
<td></td>
<td>Student Research using openBIM</td>
<td>Research excellence using openBIM led by students.</td>
</tr>
<tr>
<td><strong>Technology Excellence</strong></td>
<td>Technology Solution using openBIM</td>
<td>An applied technology solution developed on the back of buildingSMART schema.</td>
</tr>
</tbody>
</table>
Appendix C: Submission View

Use this guide to walk you through what is required.

https://awards.buildingsmart.org

If you are new to this site, you will first be asked to create an account to log in with.

When you sign in, this is the homepage view where you start a submission or go back to access a completed or in-progress submission. Note the important information about dates and support, with submission(s) listed at the bottom.
When you start a new submission or open an existing one, you are required to complete the information on each tab shown here (except for the “optional” tab is optional, not required):

At the bottom of each tab you will have the following option:

- Save + next
- Save + close
- Preview

Your submission has been submitted.

Once you have completed all the information asked for on all the tabs there is no other information that is required for the submission – everything is within this platform.

If you are happy with the information provided in your submission you can then go ahead and submit. Save a copy of the PDF version of your submission for our records.

You can return to your submission at any time and make changes up until the deadline. There is no restriction on how many times you access and/or edit your submission(s) within the deadline. However, once the deadline is past, you will not be able to access your submission(s).
My submissions → Edit submission

All questions must be answered, unless marked optional.

Details | Overview | Stakeholders | Background | openBIM | Attachments | Optional

2. CORE REQUIREMENTS

Satisfying the following core requirements is necessary to advance to the judging round:

1. Entries must demonstrate with evidence the deployment of one or more buildingSMART tools or standards.
2. Entries must be delivered in International English; the jury will not be able to assess content written in a language other than International English.
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**Category**

[PROJECT DELIVERY EXCELLENCE] [ ]

Integrated Project Delivery using openBIM

**Submission Name**

[32 Saratoga]

**Submitting Party Company Name**

[S8 Inc.]

**Submitting Party Company Location**

[Gatineau, Quebec, Canada]

An industry construction project with demonstrated excellence using openBIM in an Integrated Project Delivery (IPD) setting.

Integrated Project Delivery using openBIM
Submitting Party Role on Project
Design Builder

Role contracted on the project

Submitting Party Company Website (optional)
https://

URL Address

Details Overview Stakeholders Background openBIM Attachments

Full Project Name
House addition and renovation for 32 Saratoga

This may be the same as the submission name. This is the full name used in any contract or published material of the project.

Project Location (Country)
Canada

This should be where the project is located, not the submitting party’s office location.

Project Objectives
Build an addition and renovate the existing structure using locally sourced materials.

12 / 100 words

Summarize the objectives of the project in 100 words or less. Provide a high-level overview that would be appropriate on a cover page or executive summary.

openBIM Achievements
Share digital information more easily with professional designers and suppliers that don’t have a lot of software experience.

18 / 100 words

Describe how the use of openBIM brought value to the project in 100 words or less. Provide a high-level overview that would be appropriate on a cover page or executive summary.
<table>
<thead>
<tr>
<th>Contributor #1</th>
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<tr>
<td><strong>Stakeholder Company Name</strong></td>
<td>ModyMax Inc.</td>
</tr>
<tr>
<td><strong>Stakeholder Company Location</strong></td>
<td>Gatineau, Quebec, Canada</td>
</tr>
<tr>
<td><strong>City, Country</strong></td>
<td></td>
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<tr>
<td><strong>Stakeholder Company Website (optional)</strong></td>
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<tr>
<td><strong>URL Address</strong></td>
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</tr>
<tr>
<td><strong>Stakeholder Company Role</strong></td>
<td>Design Advisor</td>
</tr>
<tr>
<td><strong>Role contracted on the Project</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Contact Name</strong></td>
<td>Mady</td>
</tr>
<tr>
<td><strong>Contact Person for this Submission</strong></td>
<td></td>
</tr>
</tbody>
</table>

[Add contributor]
Project Address
32 rue Saratoga
Gatineau, QC, J9H 4A3
Canada

Project Type
- Residential
- Commercial
- Mixed-Use
- Institutional
- Industrial
- Civil
- (Other)

Residential = Houses, Apartments, Condominiums, etc.
Commercial = Shopping Centres, Stores, Restaurants, etc.
Mixed-Use = A minimum of two types, like residential and commercial, for example
Institutional = Hospitals, Schools, Laboratories, etc.
Industrial = Airports, Plants, etc.
Civil = Roads, Bridges, Tunnels, etc.

Size of Project
2400 ft²

Use any metrics that help determine size of project or give a sense of scale. Ex: Budget/Cost, square footage or square metres, number of buildings, etc.

Detailed description of the project
Provide a high-level overview that would be appropriate on a cover page or executive summary. Provide a high-level overview that would be appropriate on a cover page or executive summary. Provide a high-level overview that would be appropriate on a cover page or executive summary. Provide a high-level overview that would be appropriate on a cover page or executive summary. Provide a high-level overview that would be appropriate on a cover page or executive summary. Provide a high-level overview that would be appropriate on a cover page or executive summary. Provide a high-level overview that would be appropriate on a cover page or executive summary.

TIP: You can write in Word and copy/paste to this field when ready.
### Detailed description of openBIM on the project

25 / 1000 words

Magic ensued when real-time delivery of information tailored in content and file format was the key to keeping the project on time and on budget.

### Software ecosystem map

Select file

Provide a visual diagram of all the BIM software and openBIM information exchanges between the various project stakeholders. Be explicit about openBIM elements.

### openBIM Supporting Evidence

Select file

Provide additional supporting evidence to fully demonstrate the extent of openBIM on the project. (Maximum of 10 pages total.)

### Benefits from using openBIM

11 / 500 words

- Transparency
- Speed of being able to exchange meaningful information
- Qualitative certainty

### "We were able to innovate using openBIM." (optional)

0 / 500 words

If this statement is true, describe what the innovation was and how this was achieved on the project.

### "We were able to identify where we need openBIM to develop further." (optional)

0 / 500 words

Identify where you could have used more development of openBIM to bring greater benefit to the project.
Additional visual material may be supplied as follows:

1. A maximum of ten (10) pieces can be uploaded with your entry.
2. Formats accepted are as follows: .pdf, .jpeg, .mp3, .mp4
3. Links and externally hosted videos are allowed as attachments.
4. Provide website URL's to a publicly accessible campaign or active URL of a landing page. Please ensure any applicable usernames and passwords are provided and active.
5. Please do not upload any further written material as the judges will not consider these. The written component of your entry should be fully explained within the provided form fields.
Optional information

You are invited to submit optional information to help inform ongoing buildingSMART standardization, harmonization and educational activities. Completion of this tab is not required and will not be judged as part of this submission.

- [ ] BIM Uses were defined on the project (optional)

- [ ] I agree to be contacted about the project BIM uses outside of this awards program. (optional)

Save + next  Save + close  Preview  Your submission has been submitted.
Appendix D: Sample Attachment Files

Below are some examples from submissions to the 2019 Awards program. These samples can give ideas on how to support the kinds of attachment documents we are asking you to provide in the 2020 submission. Please remember that plagiarism is a serious offence and not tolerated in this program.

Figure 1: BIM Technology Map – Mercedes Autohaus Project, Australia

Project general information

- Project BIM Uses

<table>
<thead>
<tr>
<th>Project BIM use / Description</th>
<th>Stage</th>
<th>Tool</th>
<th>Delivery format</th>
</tr>
</thead>
<tbody>
<tr>
<td>Design Authoring and Drawing Production</td>
<td>Stage 1</td>
<td>ARCH</td>
<td>PDF, RVT, DAWG, PDF, IFC, (T2)</td>
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<tr>
<td></td>
<td>Stage 2</td>
<td>REVIT</td>
<td>BIM NAVISWORKS</td>
</tr>
<tr>
<td></td>
<td>Stage 3</td>
<td>SOLIBRI</td>
<td>IConstruct</td>
</tr>
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<td>Radiance</td>
<td>PDF, DAWG, PDF, IFC, (T2)</td>
</tr>
<tr>
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<td>Stage 1 T1, T2</td>
<td>Navisworks</td>
<td>PDF, DAWG, PDF, IFC, (T2)</td>
</tr>
<tr>
<td>BIM Model for Tender Document</td>
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<td>Arch</td>
<td>PDF, DAWG, PDF, IFC, (T2)</td>
</tr>
<tr>
<td></td>
<td>Stage 1 T2, T3</td>
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<td>AVI</td>
<td>PDF, DAWG, PDF, IFC, (T2)</td>
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<tr>
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<td>Stage 1 T1, T2</td>
<td>Revit</td>
<td>PDF, DAWG, PDF, IFC, (T2)</td>
</tr>
</tbody>
</table>

Stage 1 Task 1: Land Use Master Plan Review and Concept Design
Stage 1 Task 2: Building Architecture and Engineering Schematic Design
Stage 1 Task 3: Infrastructure Schematic Design
Stage 1 Task 4: D&B Tender Documents
Stage 2 Task 1: Detailed Design Development
Stage 2 Task 2: Final Design
Stage 2 Task 3: Pre-Construction Contract Stage
Based on initial discussions with the client at the beginning of the project, the BIM Execution Plan mandated a truly model-based methodology for design authoring, where:
- all drawings are to be produced from the model
- annotation / tags on the drawings have to come from the model elements
- schedules need to be model-driven
The client made modelling a contractual obligation and the models liability documents.
Models have since been connected to a central database through dRofus to populate, consolidate and audit the data.
This methodology prepared the project for smooth handovers and an FM-ready and deliverable from day one.

Figure 3: Process Map – Queen’s Wharf Brisbane Project - Australia

25 consultants (about 400 people) provided model-based documentation on the project. This work provided a solid base for all other use cases.
The federated model is in real world coordinates, while export / import between different authoring software is typically based on a local project origin. (PDC note known issues with authoring applications operating in real world coordinates, and “element too far from origin issues”)
Therefore consultants needed to export two versions of all IFC’s, one at real world coordinates, another one at the project origin.
Pending on the software package and model application, the user has the ability to utilise the file best fit for purpose.

Figure 4: IFC coordinate management & interoperability – Queen’s Wharf Brisbane Project - Australia
The problem: Coordination needed to be specific to different design zones and:
There was a need to separate different responsibilities (e.g. restrict access to individual scopes of work for different contractors and different phases)
Therefore a model break up strategy was necessary, where the overall site and facilities were broken down to different design zones aligning with the client’s breakup strategy.
Consolidated naming conventions for all parties in the delivery team were necessary to make information easily identifiable, avoid conflicts and facilitate fluid collaboration.
Model sizes were also limited to 250 Mb for software usability. Namely to enable models loaded onto tablets for BIM in the field workflows and known Revit stability issues at higher model sizes.

Figure 5: Model break up and naming strategies – Queen’s Wharf Brisbane Project - Australia

A location based database is the starting point for various deliverables on the project:
- Accommodation schedules
- Door schedules (linked to rooms)
- Room data sheets
- COBie exports
- Future FM uses

In some areas the lead architect, Cotter Parker was responsible for defining the relevant spaces (zones in ArchICAD) in others, interior designers modelled rooms/spaces in Revit.
The goal was to publish combined COBie exports and other deliverables from various consultants’ models of the same project location, from different perspectives, for example a room data sheet incorporating the room and data build from the lead architect (ArchICAD), finishes and furniture from interior designers (Revit) and equipment from the MEP engineering trades (Revit).

Figure 6: Room/space management – Queen’s Wharf Brisbane Project - Australia
Figure 7: 3D Coordination – Queen’s Wharf Brisbane Project - Australia

Figure 8: Design Authoring and Briefing – West 65 Project, Serbia
4 Data Stream Delivery

4.1 Data transfer for all software

Figure 9: Existing Conditions Modeling – West 65 Project, Serbia

Figure 10: Data Stream Delivery – Xiamen Metro Transit Project, China