

Proposal

2020-2021 Passivhaus Student Competition



1. Primary Objectives

Expanding upon five prior competitions, this proposal describes the plans for a 2020-2021 Passivhaus Student Competition beginning in Autumn 2020 (start of the term.)

The main purpose of this competition is to give students involved in the built environment (architects, planners, urban designers, building engineers) a creative vehicle to learn about creating a low energy & sustainable building, using the Passivhaus standard for energy efficiency, and considering the choice of materials.

2. Competition

- I. Due to social distancing measures for the foreseeable future, the competition will run a pared back schedule with preference given to online delivery where possible.
- II. The competition will be open to post-grads of any subject related to the built environment, and there will be no restriction as to which students can enter the competition. However, the submission requirements will be more appropriate/achievable for post-graduate architecture students, due to the design focus of the competition.
- III. Competitors are asked to identify one retrofit or new build project and provide detailed design to turn this into a certifiable Passivhaus building.
- IV. Entrants may pick their own UK site and refine the brief to fit within their course teaching.
- V. Standard submission templates consisting of a pop-up banner, & A3 designPH poster must be used to ensure all entries are comparable at judging. They will include, but are not limited to:
 - a Passivhaus Strategy
 - b Building design – plans, sections, renders, models
 - c Materials – explanations of material choices and their implication
 - d Predicted building performance (PHPP or equivalent)
 - e Design & construction details highlighting Passivhaus principles
- VI. A shortlist of 3 projects will be put forward by each University partner for judging by the end of **May 2021**.
- VII. 1 winner will be picked from each University by the competition jury. Winners will be announced online shortly after judging and have their work exhibited at the UK Passivhaus Conference.
- VIII. 2021 prizes will include entry to the UK Passivhaus Conference and an exhibition of the winners' work, along with a certificate. Gift vouchers/ cash prizes are to be reviewed, subject to securing sufficient sponsorship.

3. The role of Partner Universities

- I. The competition has no overall sponsor this year – therefore, each partner University must raise/ find sponsorship of approximately £5,000.00 to cover Passivhaus teaching & software. PHT are happy to recognise sponsors on the competition web listing & promo materials.
- II. A dedicated contact from each participating university is vital to promote the competition in-house and integrate it into the coursework.
- III. The detailed brief will be developed by each University and tailored to be delivered as part of their standard course.
- IV. Each University is responsible for introducing & launching the competition to their students and organising an optional Passivhaus site visit, along with covering associated costs.
- V. Each University needs to schedule a Passivhaus expert to deliver teaching (suggested 3 sessions) about Passivhaus as part of the coursework. Highly recommended that this is delivered by an external Passivhaus mentor.
- VI. Each University must promote the competition to local/ internal press.

4. Benefits to Partners & Participants

- I. Particularly pertinent in a looming recession, participating in a national competition helps to improve students' employability, providing real life scenarios, and gives university partners a tool to push the teaching of sustainable construction into the curriculum.



- II. Winners are invited to the following UK Passivhaus Conference and work is displayed to the industry – offering networking & potential employment opportunities.
- III. Discounted costs for student versions of DesignPH and PHPP
- IV. Student access to PHT’s online learning resources
- V. Assistance with finding external Passivhaus tutors
- VI. Recognition in the press

5. Timeline

Oct 2020	Confirm commitments for collaboration with Universities.
Nov 2020	UK Passivhaus Conference.
Nov 2020	Soft launch of PHT Passivhaus e-learning hub accessible to students.
6-8 Nov 2020	UK Passivhaus Open Days.
Oct 20 – May 2021	Passivhaus teaching at each University.
31 May 2021	Short-listing of entries by each University.
July 2021	Judging panel decide winners – winners announced online.
Autumn 2021	Winners presented at the UK Passivhaus Conference.

