The Seed is the name of the new greenhouse to be built on campus of KTH. The essence of the greenhouse is a lush hill. Covered with a light, dome shaped wooden structure and an advanced polymer cushion system, it is a combination of traditional techniques and modern innovation. The building is a stretched dome shape, an oval, with a height of 4 meters to collect as much sunlight as possible, and to provide space for taller plants and trees. The Seed is not only an example of sustainability in design, it will serve as a meeting point and educational space for students and their professors.

The Seed is a collaborative project between SEED (the KTH department for sustainable development, environmental science and engineering) and the architecture students at KTH. The assignment of a greenhouse was presented at the beginning of 2017, a design process that has resulted in a creative design for a sustainable greenhouse. A pre study had been made students at the master program Sustainable Energy and Engineering, investigating sustainable methods to build a greenhouse in the specific location. The results of the study have been incorporated in the design, and partly reinterpreted to fit the design and sustainability concept.

The totality of the building is the design of the students in dialogue with SEED. The cover of the building is a system of light cushions filled with air, made out of a polymer called ETFE. The ETFE-polymer is recyclable, durable and light diffusing and has been used only a few times before in Sweden. Abroad there are more examples of ETFE in architecture, for example in the greenhouse complex of Eden Project in Cornwall, UK. The insulating properties of ETFE makes it ideal also for a greenhouse in a Scandinavian climate.

Maintenance and gardening will be a collaboration between students and their professors. A gardening society is in the making through the student union, which will not only provide care for the plants, but will enable The Seed to become an unusual social space for students and their teachers.