



## Abstract

Our main outreach vehicle is the Atomic Architects exhibit. Our exhibit aims to demonstrate what a 2D crystal is, how it is made and what the future potential applications are.

## Exhibit Description

The team is made up of academic staff, Post-Docs, PhD students and admin support staff. The team show and assist visitors in exfoliating their own layer of atoms from a bulk crystal sample which they can then see under a microscope or on a large TV screen; they use large bubbles to demonstrate the concept of thin film interference; they use a large interactive model of 2 layers of crystals to explain Moiré patterns, crystal geometry and unique properties of the 2D crystals and have an example of a 2D crystal LED to provide visitors with an example of the potential future applications and usefulness of the crystals.

 [AtomicArchitects@HWU\\_QPL](https://twitter.com/AtomicArchitects@HWU_QPL)

## Elements of the Exhibit



## The Atomic Architects Exhibit has been presented at the following events:

- Royal Society Summer Science Exhibition, London 2018 (*11,000 visitors*)
- Scottish Science Advisory Council Launch Event, Edinburgh 2019 (*150 guests*)
- Local Beaver Scouts visit, Edinburgh 2019 (*40 beaver scouts & leaders*)
- Emerging Technologies: The Future of Engineering Exhibition, Edinburgh 2019 (*500 delegates*)
- Explorathon at the Scottish Parliament Exhibition, Edinburgh 2019 (*150 guests*)
- Heriot-Watt University Open Day, Edinburgh 2019 (*1000 potential students*)
- Explorathon at the Edinburgh Botanical Gardens, Edinburgh 2019 (*700 visitors*)
- Quantum City at the Royal Institution, London 2019 (*350 visitors*)