



Bristol Hackspace Manual

Revision 1, 2012

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Introduction

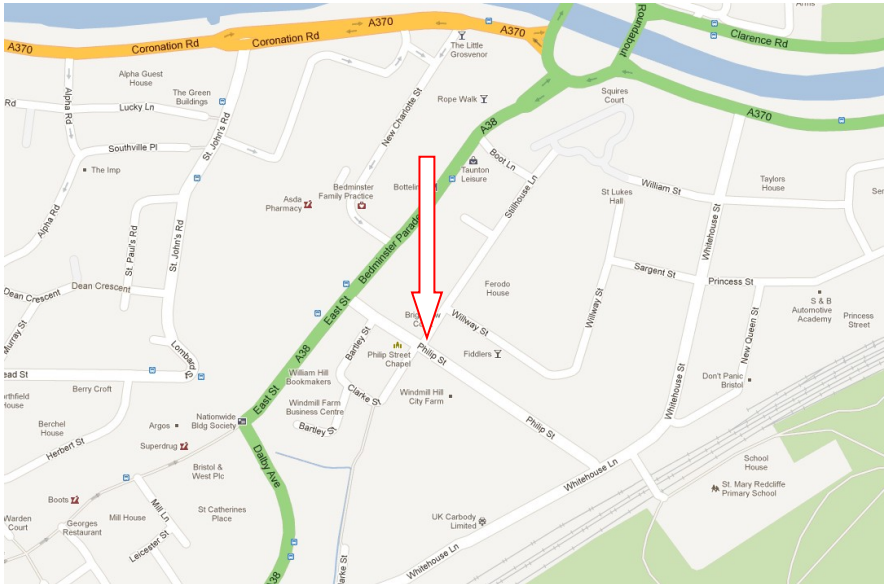
Welcome to Bristol Hackspace. We hope you get a lot out of being a member. The space can be a bit daunting at first, so we've compiled this manual to tell you briefly about most aspects of it.



In particular, it'll give you some idea of how the space is organised, what's available within it, plus some contacts & resources in case you have any further questions.

Remember, though you might feel a bit awkward as a new member, you have as much right to use the space as anyone else has, and may attend Committee meetings, news of which can be found on our Wiki.

How To Find Us



The Bristol Hackspace is for people to come and build or re-purpose anything electronic (or sometimes not electronic).

We meet regularly every Thursday evening from 7pm and the Hackspace is available to members at other times, when a keyholder is present. Just check on line.

Address:

Studio G11

**BV Studios
37 Philip Street
Bedminster
Bristol
BS3 4EA**

Access to studio G11
(the room we use) is
also available via
the BV Studio
entrance



The Front Door. The logo was
created by a members POV
display and is not generally there!

Health and Safety



The health and safety of both yourself and those around you is paramount. As they say in Nottingham Hackspace: **“DO NOT BE ON FIRE!”**

Within the Hackspace area there are numerous potentially dangerous tools and equipment. It is the duty of every member to make sure they operate safely and do not endanger themselves or those around them.

To use some tools and equipment you will require specialised training. It is your responsibility to ask another member to train or supervise you until you have the necessary skills. For details of how to arrange training, email the mailing list.

If using tools producing noxious exhaust gases or dust, then these must be safely vented/protected and must not create a hazard or endanger those around you.



Matt with Lathe

On loan Laser Cutter in preparation



Be aware that specialist training may be subject to a charge additional to the usual membership fee.

For specialist advice, you can use IRC to contact the relevant members and ask their availability.

Ensure that you use safety equipment such as protective goggles where necessary. If you believe some safety item is missing or absent you should not proceed ahead regardless. Bring this to the attention of a committee member and do not put yourself in danger.



Remember, YOU are responsible for what you do. Your actions within the Hackspace area are not the liability of Bristol Hackspace or its sponsors.

Be aware of the location of fire exits and safety equipment such as fire extinguishers while using the premises. It is your responsibility to ensure that you comply with the safety regulations. If in doubt – Ask!

Also note that this is largely an Adult environment and as such Under 16s will have to be accompanied and supervised by an adult at all times.



Hackspace Rules

1. Do not be on fire!	First and foremost look after the safety of both yourself And those around you.
2. Pay Membership Monthly	It does cost money to run the Hackspace. You may make as little or as much of the facilities as you wish and we ask that your subscription covers the benefit that members get from the space and its resources. To cover expenses we propose a minimum of £10 per month.
3. Tidyness	Clean up after yourself. Don't leave a wake of tools, offcuts, dust or cables. The Hackspace has Members, not staff.

<p>4.</p> <p>Donations</p>	<p>Cash is great; but we do accept donations of equipment that are open members to hack too.</p> <p>We do not however want old discarded TV's or unreliable equipment that properly should be thrown away. If in doubt-Ask</p>
<p>5.</p> <p>DO NOT HACK Means DO NOT HACK!</p>	<p>There are things which you are open to hack in the space. These are marked. Equally there are things which MUST NOT be hacked. It should be obvious which category something is in. If not, ask that it be clearly labelled.</p>
<p>6.</p> <p>Knowledge & skill</p>	<p>Ensure you have the knowledge & skills appropriate to the equipment you use.</p>

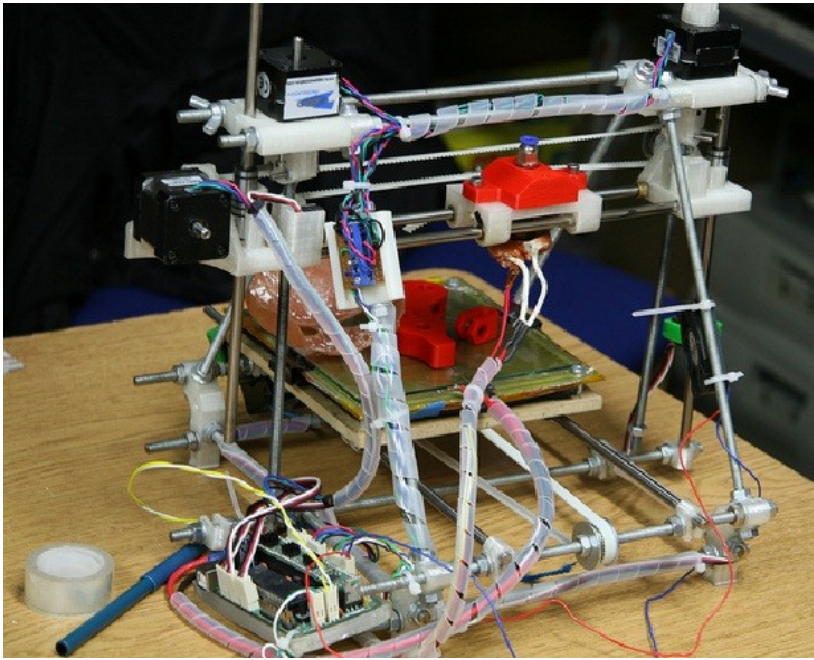
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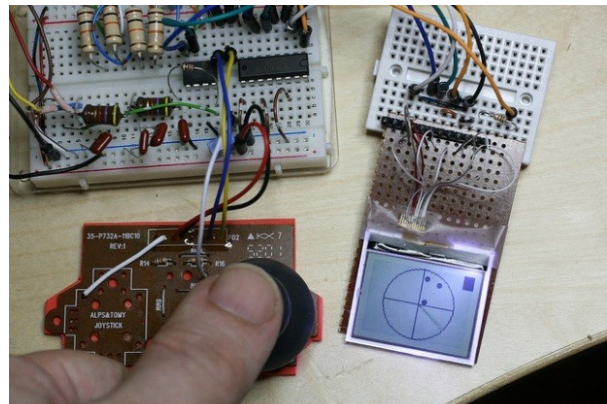
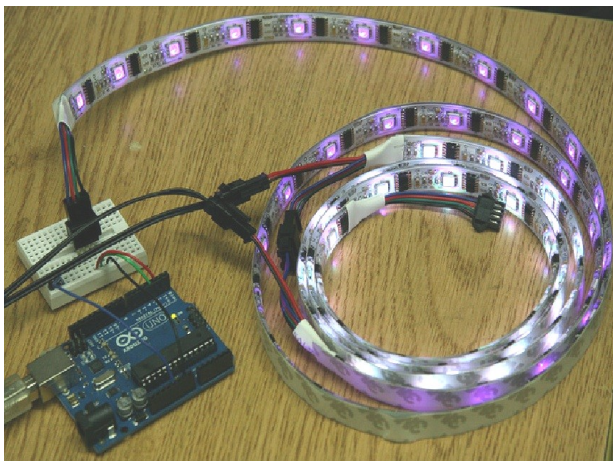
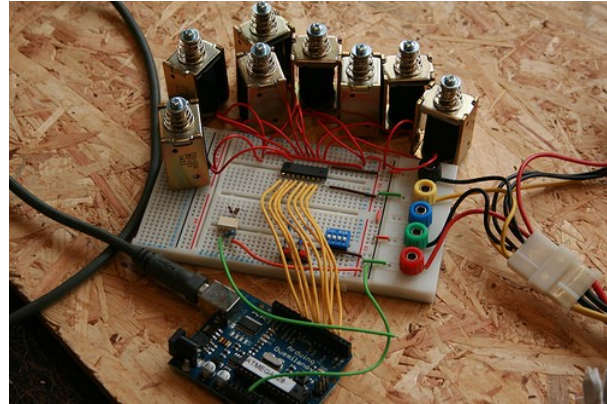
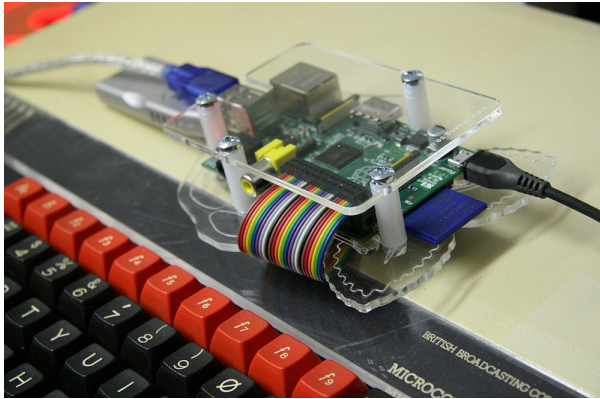
Hours of Use

The Hackspace does NOT
provide overnight
accommodation.

Hackspace Activities

Hackspace activities are many and varied and are not limited to the electronics field. You may choose to spend your time using an Arduino or Raspberry Pi, but members also build robots, create lighting demonstrations, modify old hardware and generally cover most electro-mechanical things. We are not beyond investigating knitting machines for example. Members have also created flying drones and 3D printers to make the required parts for other machines. Pictures below give a flavour of what we do.

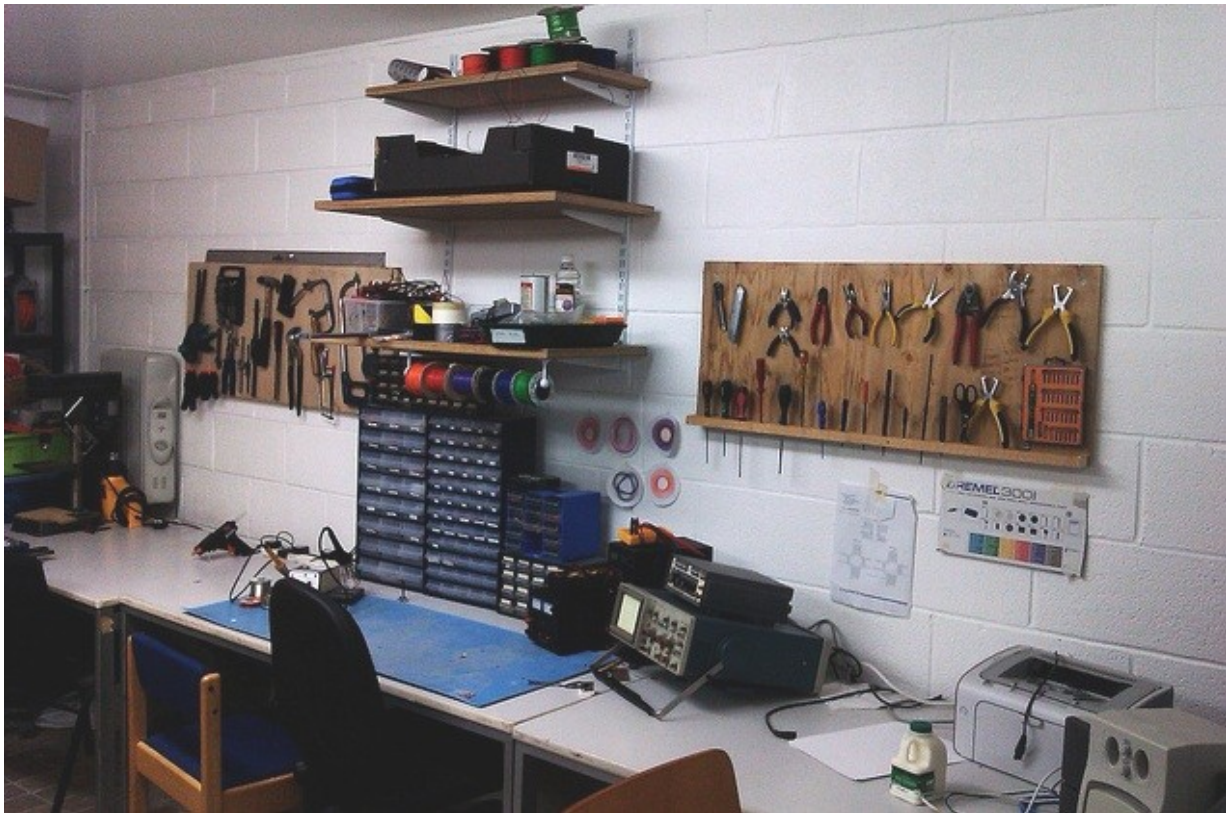




Radar Game on Arduino

Above you can see examples from a Raspberry Pi atop a BBC Micro, to an Arduino at a Hackspace summer workshop; Arduino driving LED strips and a VFD

Tools, Equipment and Consumables



Below is a summary of tools available for use on the premises:

- Screwdrivers, pliers, snips
- Hacksaw
- Electronic
- Multimeters
- Signal generator
- Oscilloscopes
- Power supplies
- Dummy load
- Soldering irons
- Magnifying lamp
- 20x microscope (eg, for soldering tiny devices)
- Breadboards

Metalwork

- Matt's CNC milling machine (in G10), on which he's running training courses
- Matt's metalwork lathe (in G10)
- Column drill

Graphical

- Dymo Pocket label printer

Other

- Reprap 3d printer (nearly operational)
- Laser cutter (nearly operational)
- Mini 3d printed lathe (not yet operational)

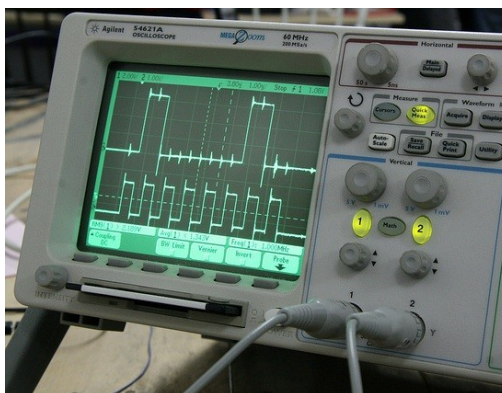
Tools and consumables are available for your own use. Please treat tools with the same care and attention afforded your own. Breakages, issues or potential hazards must be brought to the attention of the Committee.

Consumables

The odd screw or bolt, resistor or diode, bearing or bar, plastic filament etc may be used without prior notice if required. You are however expected as a Member to replace components that you use within a reasonable timescale.

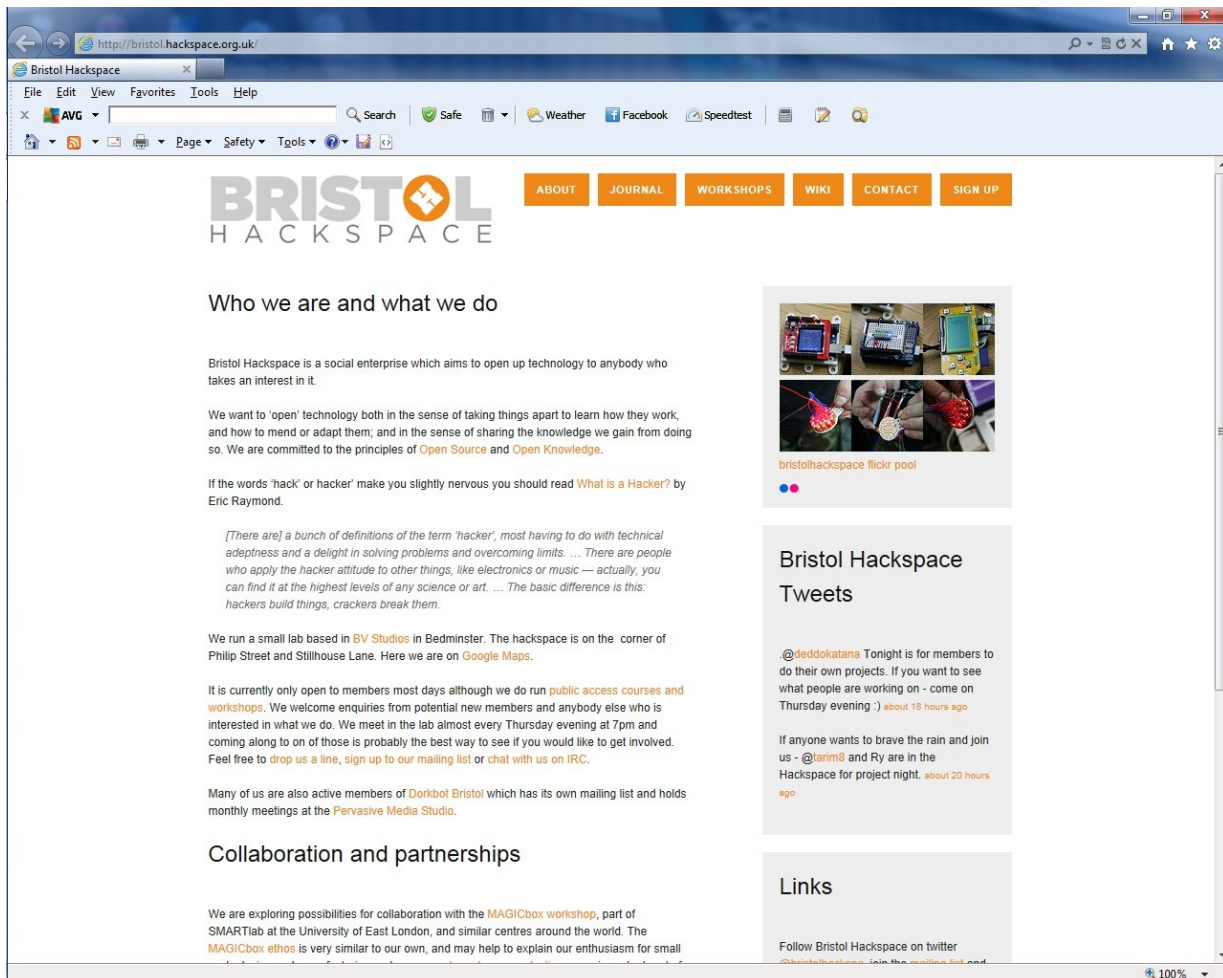
If you find a part you need amidst the items freely available to hack, then make use of them. Equally if you can donate some equipment containing things other may find use for then please do so (old PC's for example). Where appropriate, cash donations in lieu may be acceptable.

Remember that the items held in the Hackspace are not intended solely to source your particular project to the detriment of others.



The Bristol Hackspace Website

The main website for the hackspace is
<http://bristol.hackspace.org.uk>.



There is a communal mailing list. Follow this link for details

<https://lists.aktivix.org/mailman/listinfo/hackspacebristol>

You don't have to reside in
Bristol to be a member.
We have group discussions
via
the online mailing list

There is also a Twitter
account relevant to
the hackspace:

[@bristolhackspc](https://twitter.com/bristolhackspc)

Within the Hackspace a
wireless LAN is locally
available identified by an
SSID of **G11**

This is password restricted
and accessible by registered
members only.

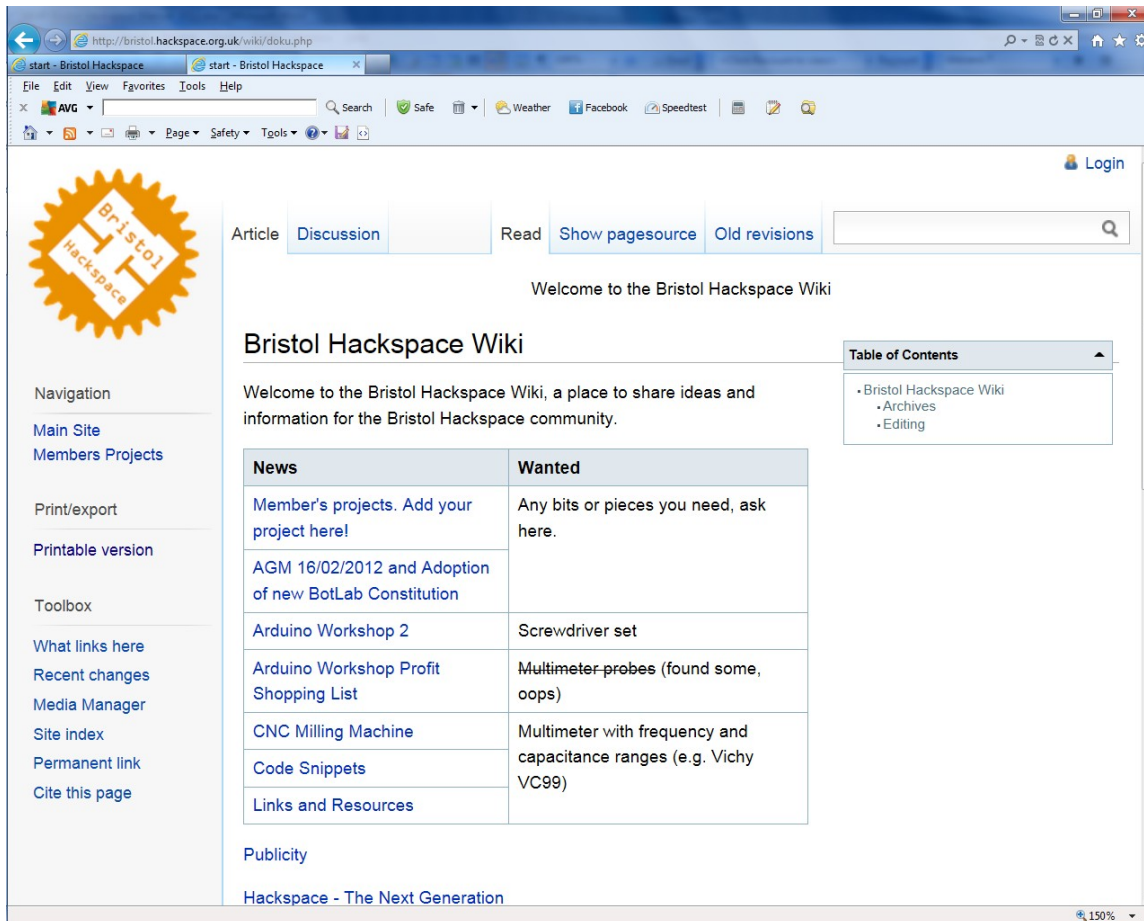


Refer to the on-line Wiki
page for the latest
information

Pictures (right) show a BBC
micro with Raspberry Pi
resting on top, and below
work is progressing on a
table based touchscreen.



The Hackspace on-line Wiki



Hopefully , this manual should answer a lot of your questions, but if there's anything else, please use the online form on the website

<http://bristol.hackspace.org.uk/contact/>

or you can contact us on the Freenode IRC network
in the channel #bristolhackspace

The wiki can be accessed directly at
<http://bristol.hackspace.org.uk/wiki>

Hackspace Organisation

Bristol Hackspace is itself an offshoot from **BOTlab**. It is a social enterprise which aims to open up technology to anybody who takes an interest in it.

We want to 'open' technology both in the sense of taking things apart to learn how they work, and how to mend or adapt them; and in the sense of sharing the knowledge we gain from doing so. We are committed to the principles of [Open Source](#) and [Open Knowledge](#)



There is a five person board of directors elected to oversee the hackspace & vote on critical issues.

All of the board of Hackspace are Dorkbot volunteers, (Dorkbot being an organisation within **BOTlab** and based in the Watershed.)

Board meetings are held publicly, in the hackspace on the last Thursday of each month

Votes conducted at meetings are also open to all members.

If there is any surplus after rent & other expenses have been paid, it is spent on tools, safety equipment & consumables.

At present, the board members details can be found in the on-line wiki

Building access is available during the week whenever a keyholder is present.

Access to section G11 (the room we use) is also available via the BV Studio entrance

Local Facilities

On site, toilets and washbasins are available.

Food can generally be obtained from local shops.

Car parking nearby can be problematic however there is a local Asda car park. Asda hours being 09.00 am to 08.00 pm weekdays.

The nearest rail link is Bristol Temple Meads.

Buses and Coaches Guide: [Refer to official timetables for updates](#)

Num.	Service (From/To)	General Details
24	Bristol (Ashton Vale) to Bristol (Muller Road) Via Bristol (Risdale Road)-Bristol (Ashton Drive)	Mon to Sat (20 mins) Sun (30 mins)
25	Bristol (Ashton Vale) to Bristol (Muller Road) Via Bristol (Risdale Road)-Bristol (Ashton Drive)	Mon to Sat (every 20 mins)
52	Bristol (Highridge) to Bristol (Broadmead) Via Bristol (Highridge Green)-Bristol (Bridgewater Road)	Mon to Fri (4 trips)
52	Hartcliffe (Imperial Park) to Bristol (Broadmead) Via Hartcliffe-Bristol (Highridge)-Bristol (Highridge Green)	Mon to Fri (4 trips)
75	Cribbs Causeway to Hengrove Via Bristol (Coniston Road)-Patchway-Bristol (Gloucester Road North)	Mon to Sat (every 10 mins) Sun (30 mins)
76	Bristol (Crow Lane) to Hartcliffe Via Bristol (Southmead)-Bristol (Knole Lane)-Bristol (Pen Park Road)	Mon to Sat (every 20 mins)
76	Bristol (Crow Lane) to Hengrove Via Bristol (Southmead)-Bristol (Knole Lane)-Bristol (Pen Park Road)	Mon to Sat (every 20 mins) Sun (every 30 mins)
76	Bristol (Tormarton Crescent) to Hengrove Via Bristol (Station Road)-Bristol (Crow Lane)	Evenings only, Mon to Sun (every 30 mins)
90	Bristol (Broadmead) to Hengrove Via Bristol-Prince Street-Bristol (Redcliffe Way)	Mon to Sat (12 mins) Sun (20 mins)
132	Clifton to Kingswood (John Cabot Academy) Via Bristol (Jacobs Wells Road)-Bristol (Hotwells)	School terms only, (1 trip)
161	Bristol (West Street) to Bristol (Winterstoke Road Sainsburys) Via Bristol (Sheene Road)-Bedminster-Bristol (St Johns Lane)	Shop Service, MonFri (1 trip)
161	Bristol (Winterstoke Road Sainsburys) Circular Via Bristol (Sheene Road)-Bedminster-Bristol (St Johns Lane)	Shop Service, MonFri (1 trip)
510	Bedminster Down to Bristol (Hotwells) Via Bedminster-Bristol (Bishopworth Road)-Bristol (Ilchester Road)	Mon to Fri (4 trips)
511	Bedminster to Hengrove Via Bristol (Bedminster Parade)-Bristol (East Street)	Mon to Sat (6 trips)
512	Bedminster Circular Via Totterdown-Bristol (Windmill Hill)-Bristol (Redcliffe)	Only this direction, Mon to Sat (4 trips)
512	Bedminster to Totterdown Only this direction,	Mon to Fri (1 trip)

- 512 Bristol (Broadmead) to Bedminster** Only this direction, Mon to Sat (3 trips)
Via Bristol (Temple Meads)-Bristol (Redcliffe)
- 512 Totterdown to Bristol (Broadmead)** Only this direction, Mon to Sat (1 trip)
Via Bristol (Windmill Hill)-Bedminster-Bristol (Redcliffe)
- 672 Blagdon to Bristol** Mon to Sat (3 trips)
Via Ubley-Compton Martin-West Harptree-East Harptree
- 672 Bristol to Blagdon** Only this direction, Mon to Sat (1 trip)
Via Bristol (Temple Meads)-Bedminster-Dundry-Chew Stoke
- A 1 Bristol to Lulsgate (Bristol Airport)** Mon to Sun (every 10 mins)
Via Bristol (Temple Meads)-Bedminster
- A 2 Lulsgate (Bristol Airport) to Clifton** Only this direction, Mon to Sun (every 20 mins)
Via Bedminster-Bristol (Temple Meads)-Bristol
- N 6 Bristol Circular** Evenings only, one way, FriSat (7 trips) Wessex Connect Apr 2012
Via Bristol (Redcliffe Way)-Bristol (Bedminster Parade) more
- U 1 Frenchay (UWE) to Bower Ashton** College terms only, (every 30 mins)
Via Bristol (Coldharbour Lane)-Bristol (Filton Road) more
- X 5 Bedminster to Ham Green (St Katherines School)** School terms only, (1 trip)
Via Shirehampton-Avonmouth