

Civil Engineer

The Derby & Sandiacre Canal Trust is looking for a qualified Civil Engineer to join its team of volunteers to assist with the restoration of the Derby Canal. You may be recently qualified and looking to enhance your CV or recently retired and looking for a meaningful project to utilise your skills for social and environmental benefit.

What's involved:

As a volunteer it would be for you to determine the time that you can offer to the Trust, whether that be a few hours a month or a few hours a week. The restoration of the Derby Canal will involve crossing beneath a number of roads and the main Derby to London railway line and crossing over the River Derwent. The Trust has detailed positioning of all the crossing points and the basic dimensions of each, but we need the help of a suitably qualified volunteer to turn the wealth of information we have into "shovel ready" construction plans. Note for all but one of the major the original bridge has been removed but there may be buried groundwork remains that should be retained if possible. In most other cases there is sufficient headroom available to allow the canal to pass beneath the major roads and the railway line.

Experience and/or knowledge in one or more of the following specialised areas would be essential:

1. Design of fixed road bridges considering the structural load emanating from vehicular traffic and highway regulations concerning the approach to bridges.
2. Design of fixed non-vehicular bridges considering the structural load emanating from pedestrians, cyclists, and horse riders.
3. Design of moving (lift or swing) bridges considering the structural load emanating from vehicular traffic and highway regulations concerning the approach to such bridges.
4. Design of moving (lift or swing) non-vehicular bridges considering the structural load emanating from pedestrians, cyclists, and horse riders.
5. Project management of the construction of such bridges.
6. Project management of the delivery of more general civil engineering works.

Experience and/or knowledge in the following areas would be useful but not essential:

1. Civil engineering works associated with canals, rivers and/or reservoirs including embankments and culverts passing beneath.
2. Project management of the construction or restoration of lock chambers.
3. Project management of the delivery of civil engineering works in the proximity of railway lines.
4. Development of costings of bridges and associated works.
5. Use of 3D CAD software.

As a volunteer it would be for you to determine the time that you can offer to the Trust, whether that be a few hours a month or a few hours a week. We work as volunteers in a supportive and collective manner. A volunteer civil engineer would form part of the Trust's engineering team and would liaise with other volunteers that we have that have other specialisms e.g. local authority planning. The Trust has no current paid employees. If any specialist software is needed the Trust may be able to obtain this at favourable charity rates.

For more information please contact Chris ReesFitzPatrick on 07757 979271 or by email at research@derbycanal.org.uk