Job Description

Role: Vehicle Data Engineer
Reports to:
Date: December 2021

Summary: This job involves taking ownership of Riversimple's data visualisation and
                     analysis toolset, carrying these tools forward as Riversimple's requirements
                     evolve and grow. Over time, develop familiarity with the workings of the
                     Riversimple powertrain and vehicle systems, offering insight into potential
                     causes or reporting on performance and efficiency.

                     Based in Llandrindod Wells with some remote working, this is a full-time
                     position.

Role description: Riversimple vehicles are equipped with telemetry capability, uploading
                     performance and behavioural data (to an AWS service) as the car is in use.
                     This position is for ownership of the tools that process this vehicle data.

                     Riversimple have developed two tools to support data visualisation and
                     analysis,

- The first tool focusses on data from single journeys and provides
  the ability to display time-series signals as plots on a graph, create
  new data based on existing data (performing various mathematical
  operations, i.e., creating power from electrical current & voltage),
  show route data on a map, export data to other formats, compute
  network bandwidth usage, plus many other functions.
- The second tool provides summary data drawn across many
  journeys, parsing journey data for particular trigger events,
  computing efficiencies, compiling summary reports and emailing
  alerts.

                     Both tools are written in Python 3 using PyQT, Pandas and Numpy, and are
                     in constant use as part of the vehicle development and test efforts.
                     Requirements and priorities are driven by vehicle engineers and trial data
                     analysts, along with the development team.

Desired experience:
- Competence in Python 3, PyQT, Pandas, Numpy.
- Agile development mentality.
- Development lifecycle documentation.

Desired qualities:
- A desire to help fight one of the major contributors of climate

change.
- Skill in noticing cause and effect patterns.
- An ability to integrate with a team and be naturally supportive and collaborative.
- The ability to find the clever simplicity that lies beyond complexity, including developing the simplest user interfaces.
- The insight to know when to refactor and when not to.
- A track record of delivering to high specifications.
- Good interpersonal skills with the ability to manage expectations.

About Riversimple: Riversimple is a sustainable transport company developing hydrogen-powered fuel cell vehicles. Riversimple is a Circular Economy business.

Based in Llandrindod Wells, in mid-Wales, Riversimple has a track record of exceptional innovation and a dogged determination to get things right. It has won multiple awards including the SIMMs Medal for outstanding contributions to motoring innovation and is a member of the Ellen MacArthur Foundation CE100.

Riversimple has on-going collaborations with Siemens, the Office for Zero Emission Vehicles, Milford Haven: Energy Kingdom, Innovate UK and the Circular Revolution.