

# Research & Data Insight Analyst

Interview task

## Repairs carried out by Midland Heart operatives

- Midland Heart In-House Maintenance Team carries out thousands of responsive repairs each month
  - Repairs vary from Plumbing to Electrical to Carpentry works
- Naturally reactive repairs are unpredictable and can happen at any moment making it difficult to forecast resources required each week/month/quarter/year
- In the attached spreadsheet you will find data related to Midland Heart properties as well as historical repairs in a second tab of the Excel spreadsheet
- Please take your time to explore the dataset and think about insights that can be drawn out of it
  - Explore both stock list and repairs data
  - Approach exploratory data analysis (EDA) creatively
    - Data Visualisation is essential for analysing information and making data-driven decisions
  - Consider statistical modelling and relationship between variables
    - Think how other factors might affect number of repairs carried out in a property (i.e. any particular season heavy for certain type of repair?)
  - Is there a potential for further research?
- Please collate your EDA, hypotheses, findings and conclusions in a research paper
- The paper should be approximately 5 pages long considering visualisations, however this is just a rough guide
- A couple of paragraphs will suffice for explaining your methodology, how you approached/manipulated data, justifying choice of technology used for the analyses
- The remainder of the paper should focus on your findings, assumptions, conclusions and caveats in the data
- Feel free to employ any tools and technology for analyses and visualisation
- Please try to keep it as concise as possible. Meaningful insights, discussions and proposals are preferred to lots of descriptive statistics

Thank you,  
Research & Data Insight Team