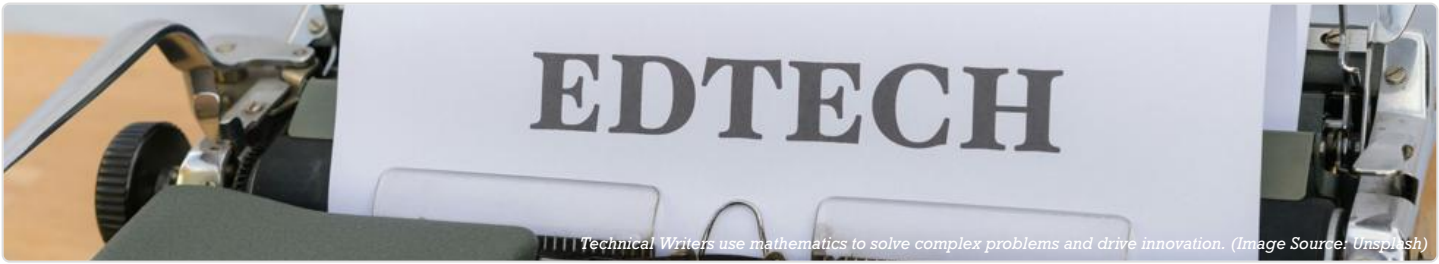


CAREERS THROUGH MATHS: TECHNICAL WRITER



Technical Writers use mathematics to solve complex problems and drive innovation. (Image Source: Unsplash)

JOB OVERVIEW

A Technical Writer, often known as a Technical Author in the UK, is a professional communicator who transforms complex, technical information into clear, concise, and accessible documentation for specific audiences. Their daily responsibilities involve collaborating closely with subject matter experts (SMEs), such as engineers, software developers, and scientists, to understand intricate products and processes. This role is central to sectors like aerospace (e.g., BAE Systems), fintech (e.g., Revolut, Wise), pharmaceuticals (e.g., GSK, AstraZeneca), and software development, where accurate documentation is critical for user safety, regulatory compliance, and product adoption.

KEY MATHS APPLICATIONS

Primary Areas:

- **Logic and Set Theory:** This is the bedrock of organising complex information. Technical Writers use logical structures like conditional statements (if-then-else) to create decision...
- **Statistics and Probability:** Writers constantly interpret and present statistical data to support technical claims. For a pharmaceutical company like AstraZeneca, a writer might need to...
- **Algebra and Calculus:** Algebra is used to understand and describe formulas and relationships between variables. A writer creating a manual for an engineering simulation software,...

ESSENTIAL SKILLS & TOOLS

SKILL	APPLICATION
Data Analysis Tools (Excel, SQL)	Using Microsoft Excel with advanced functions (VLOOKUP, pivot tables) to analyse user...
Version Control (Git)	Using Git for documentation versioning is a mathematical process of managing branches,...
Communication and Visualisation	Using tools like Microsoft Visio or draw.io to create precise technical diagrams,...
Quality Control and Review	Employing mathematical rigour in proofreading to check numerical values, units of...

TYPICAL PATHWAY

The most common entry route is through a bachelor's degree. While a specific degree is not always mandatory, highly relevant subjects include English, Communications, Journalism, or a STEM (Science, Technology, Engineering, and Mathematics) subject.

INDUSTRY DEMAND

The demand for Technical Writers in the UK is strong and growing, particularly in the technology, engineering, and financial services sectors. According to the UK Government's official job growth statistics, roles in this area are...

REAL-WORLD IMPACT

Technical Writers are enablers of innovation and safety in the UK. They play a crucial role in ensuring the safe operation of machinery in Scottish offshore wind farms, the correct use of medical devices in NHS hospitals, and the...

QUICK FACTS

- **Education:** GCSEs (especially in English and Maths) and A- levels are necessary for university entrance
- **Growth:** The demand for Technical Writers in the UK is strong and growing, particularly in the technology, engineering, and financial services sectors. According to the UK Government's o...