



<p>About Flusso</p>	<p>Founded in 2016, Flusso is developing and bringing to market sensor products built on patented silicon-MEMS technology originally developed at Cambridge University.</p> <p>Using a unique combination of established silicon-MEMS fabrication and packaging processes, Flusso's technology platform enables sensor products with class-leading cost-performance and is ideal for monolithic, multi-sensor integration.</p> <p>It will open up new consumer and healthcare market opportunities for gas sensing and fluid flow measurement – ones that cannot be served cost-effectively by competing solutions.</p> <p>With the system always in mind, Flusso is developing multi-sensor, IoT environmental sensing solutions using regression, clustering and machine learning techniques among others.</p> <p>We are also developing novel core technology for future sensor products.</p>
<p>Purpose of the role</p>	<p>The purpose of this role is increase the Test Engineering team's capacity to</p> <ul style="list-style-type: none"> • Design and build systems for testing Flusso gas and flow sensor products • Develop test software, database functions and test data analysis/visualisation tools • Deliver high quality, reliable test results for analysis
<p>Level</p>	<p>Engineer</p>
<p>Reports to</p>	<p>Test Engineering Manager</p>
<p>Responsibilities</p>	<ul style="list-style-type: none"> • Building a full understanding of Flusso sensor devices and product solutions, including use cases, operation and performance specifications • Test requirements capture and development of specifications, methods and plans for <ul style="list-style-type: none"> ○ Sensor performance characterisation ○ Verification of compliance to product specifications ○ Emulation of production test methods, for correlation testing • Design, implementation and integration of automated test set-ups involving <ul style="list-style-type: none"> ○ Standard test equipment ○ Custom mechanical fixtures, fittings and pipework ○ Custom circuit boards and cabling ○ Bespoke software to execute test specifications • Validation of test methods and assessment of test system accuracy, repeatability and reproducibility • Efficient and timely execution of test plans • Correct capture of test results in the database system • Development of test software, database functions and test data analysis/visualisation tools • Assembly and test of product evaluation kits for customers

<p>Accountabilities</p>	<ul style="list-style-type: none"> • Suitability of test methods and quality of test specifications • Timely availability and reliability of test setups • Timely delivery of reliable test results and correct analysis of them
<p>Key internal relationships</p>	<p>Software/firmware engineers: adaptation of product software/firmware to support test methods.</p> <p>Data scientist: for collaboration on test data analysis tools and guidance on appropriate statistical methods to be applied.</p> <p>Hardware engineer: for development of custom electronics for test setups.</p> <p>Project/program managers: for understanding development plans and timescales.</p>
<p>Key external relationships</p>	<p>Test equipment suppliers.</p> <p>Mechanical fixture fabricators and suppliers.</p>
<p>Qualifications, knowledge, skills & experience</p>	<p>A bachelor’s degree in an Engineering or Science subject</p> <p>Knowledge, skills and experience in these areas are essential for the role:</p> <ul style="list-style-type: none"> • Theory and practice of test and measurement • Integration of test set-ups with bespoke mechanical parts, electronic subsystems and software • Use of standard electronics test equipment such as multimeters and oscilloscopes • Use of databases for test result storage and access • Development of test software, database functions and data analysis/visualisation tools in Python • Rigorous source code version control and release management, ideally using git • Working in an ISO9001:2015 quality system • Working to lab protocols, procedures and health and safety regulations • Analysis and presentation of test results <p>Knowledge and experience in these areas would be an advantage:</p> <ul style="list-style-type: none"> • Testing gas detection and flow sensing components or products • Development of test software in LabVIEW • Silicon-MEMS component fabrication, packaging and handling
<p>Profile</p>	<p>Highly detail conscious and meticulous.</p> <p>Comfortable working in a fast-paced, start-up environment with tight project timescales.</p> <p>Pro-active, positive, innovative and enthusiastic by nature.</p> <p>Flexible and responsive to changing needs of projects and the business.</p> <p>Good communication and presentation skills</p> <p>Keen to learn</p>