



## Job Description – Research & Development Engineer

### About MW Polymers:

MW Polymers is a market leader in industrial sealants, coatings, and adhesives. A family-owned business with an excellent reputation, we work with a wide range of customers in sectors including gas and water. We have been in business for over 40 years and continue to adapt to our customer's needs, investing in research & development to ensure we remain at the forefront of this rapidly growing market. We are looking to recruit individuals with the right attitude, focus and enthusiasm to join our team.

### About the role:

MW Polymers are looking to recruit an Engineer with an understanding of chemical and mechanical properties as well as manufacturing processes, to be the lead of our research and development projects. Reporting directly to the Managing Director and working alongside our Chartered Engineer and Chairman to develop existing and new products.

You will also get the opportunity to design and build amazing products used by some of the largest utility businesses in Europe and work closely with their research and innovation teams to support their business targets.

### Core Responsibilities

- Experimental Prototyping – Create working prototypes using cutting edge manufacturing equipment and CNC machines
- Product Design – combining knowledge of design, engineering and manufacturing processes to create innovative new products
- Research & Development Lab – Plan and carry out rigorous development testing of new and existing products to British and international standards
- New product Integration – Design and implementation of new product lines and manufacturing specifications
- Material handling and characterisation
- Good lab practice in terms of safety, diligence and accurate record keeping
- Operation of test rigs to enable assessment of product performance
- Data analysis, processing, and reporting
- Research and keeping up to date with material developments in the sector
- Knowledge of the practical application of engineering science and technology, including applying principles, techniques, procedures, and equipment to the design and production
- Knowledge and prediction of physical principles, laws, their interrelationships, and applications to understanding fluid, material, and atmospheric dynamics, and mechanical, electrical, atomic and sub- atomic structures and processes. –
- Prepare reports, manuscripts, proposals, and technical manuals for use by other scientists and requestors, such as sponsors, customers, partners and potential partners.
- Determine ways to strengthen or combine materials or develop new materials with new or specific properties for use in a variety of products and applications.
- Compiling, coding, categorising, calculating, tabulating, auditing, or verifying information or data
- Patent Applications – prepare reports and drawings for patent applications

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### About You:

The applicant must be practical, enthusiastic, flexible and hard-working to work effectively alongside our friendly team.

A data driven person with the ability to apply basic concepts of algebra and geometry.

Adaptability and teamwork; you must be ready to adapt to changes, solve problems and engage in jobs that are outside of your job spec.

Working knowledge of laboratory safety including ability to follow risk assessments and COSHH assessments.

Ability to communicate with colleagues at all levels within the business

Willingness to pass on knowledge including training of other team members when required

Ability and willingness to stand on feet for long periods of time and carry out physical tasks, including lifting.

Possess strong technical lab skills and an excellent understanding of materials are critical along with a passion to push the boundaries of material chemistry.

The right candidate will take pride in the projects they work on and help us maintain our high quality of work.

The ideal candidate will be keen to learn and understand company needs and will be happy to work to company standards, in a fast-paced, interesting working environment.

Driving licence and own transport essential

### Key Skills and Core Competencies

- Experienced in of Auto CAD 3D design software
- Developed problem solving skills
- Ability to deliver high quality result under pressure
- A highly-organised personality and ability manage multiple projects at once
- Excellent observational skills
- Attention to detail, with the ability to maintain a high level of accuracy
- Knowledge of solid-state synthesis and chemical modification.
- Ability to deal with sensitive information with discretion and to maintain confidentiality
- Experience of Microsoft Word and Excel
- Good hand skills and an eye for detail.
- Ability to work within a team.
- Self-motivated to meet quality and delivery targets.
- Have a positive “Can Do” attitude to everyday operations and continual improvement initiatives.
- Work in line with Health & Safety site requirements

## **Job Description – Research & Development Engineer**

### **Standard Working Hours**

40 hours per week -                      Monday – Thursday 8:00am – 5:00pm  
Friday 8:00am – 2:30pm

Variations to these hours and overtime may be asked of you dependent on production needs.

### **Benefits**

- Professional Membership Subscription Paid by Company
- On-site parking
- Large and purpose-built facilities
- Company Pension Scheme
- Early Friday finish
- 23 days holiday per year plus statutory bank holidays
- Working with passionate, friendly and fun people

### **Qualification and Experience:**

- Degree in a Materials Science / Engineering or equivalent