



**GWENT GROUP**  
ADVANCED MATERIAL SYSTEMS

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# Contract Research by The Gwent Group

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# Introduction

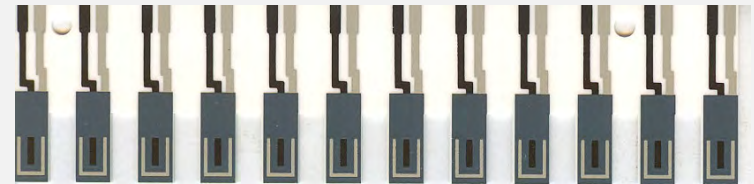
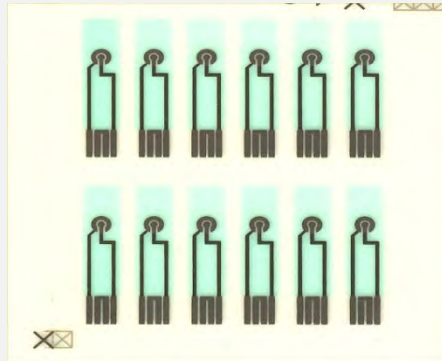
- The Gwent group offer a unique blend of development skills. As surface scientists we can formulate materials to specific product requirements from our extensive range of standard products. These products can be formulated to meet individual customers research or production needs.
- The group can also offer a 'one stop shop' for biosensor feasibility and prototype requirements. This concept of both electrochemical base transducer and enzyme/antibody stability development is a service only offered by the Gwent group.
- These services are often used in conjunction with our prototype manufacturing service for either fully built biosensors or base transducers.



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# Electrochemical Electrode Development

- Any of our standard electrochemical material systems can be printed using our three standard designs



- If customers need their own design then our team can take the these design concepts and generate artwork and electrodes



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# Biosensors

- If complete enzymatic biosensors are required, then our prototyping service can extend the shelf life and operational stability of most enzymes and antibody systems, with the added capability of surface immobilisation chemistry if required.
- We have dispensing equipment that is capable of liquid dosing down to 30 picolitres. We also have humidity controlled printing equipment capable of printing biological solutions and our aqueous based carbon inks.

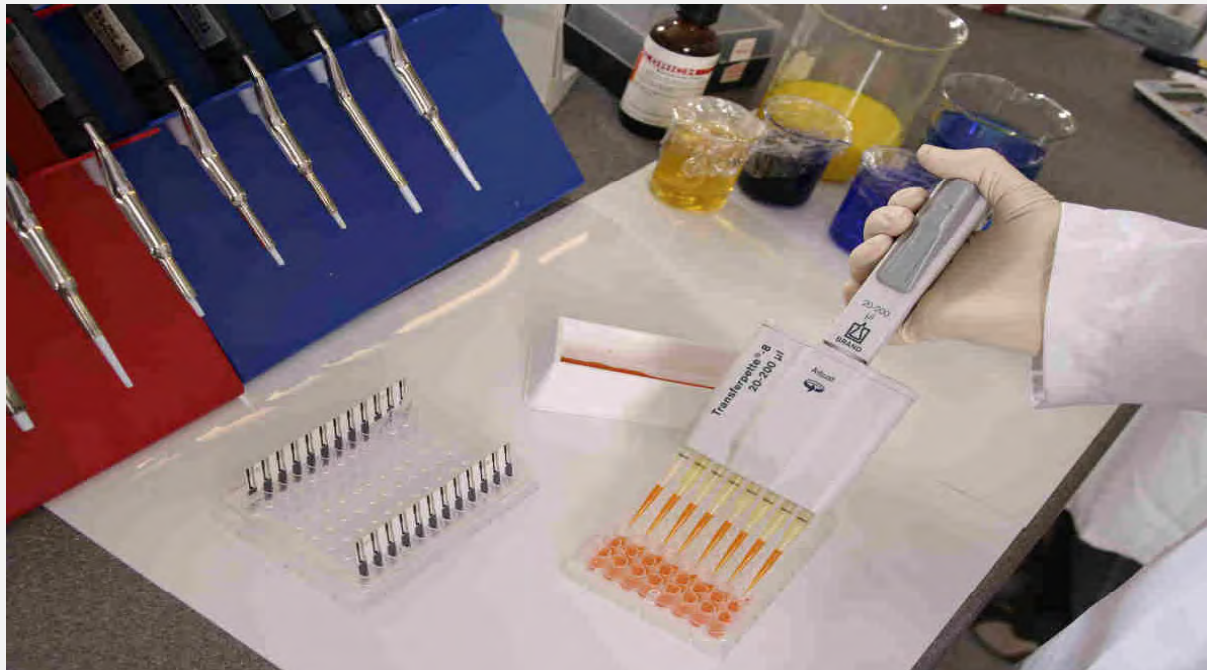




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# Stabilising Proteins and Antibodies

- We can offer a complete protein stabilisation service based upon our patented technology and a high speed screening techniques. This technology can provide a cost effective alternative to more traditional stabilisation techniques.





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# Electronic Material Contract Research

- Although we have an extensive range of standard products, we cannot cover every application requirement. To meet our customers specific needs we will formulate any product within our current product areas needed by our customers.
- If new product areas are required then feasibility studies can be carried out.





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# Quality Standards

- All work carried out to :-
- ISO 9001:2000
- ISO 13485:2003
- ISO TS 16949:2002



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