

GTS – GLASS TECHNOLOGY SERVICES

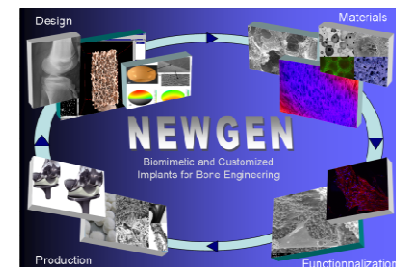
GENERAL PRESENTATION



- ✓ **Complete denomination:** Glass Technology Services
- ✓ **Location (city, country):** Sheffield, United Kingdom
- ✓ **Director:** Dr Malcolm Glendenning
- ✓ **Contact person in NEWGEN:** Dr Marlin Magallanes (m.magallanes@glass-ts.com)
- ✓ **Working Group involvement:** WG2
- ✓ **Staff:** Over 30 experienced glass technologists, scientists and engineers
- ✓ **Research topics:** Bioactive Glasses, 3D printing
- ✓ **Researchers expertises:** Glass Composition Development, Selective Laser Sintering, Glass forming (fibre – drawing, extrusion, moulding, cutting and polishing)



GTS
Glas Technology Services
9 Churchill Way
S35 2PY, Sheffield – United Kingdom

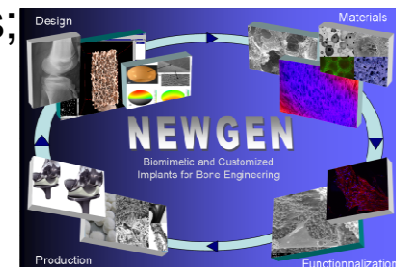


COST Action MP1301

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RESEARCH PROJECTS IN THE FIELD OF BIOMATERIALS

- **MaTCH** (FP7: 286548): Development of new macroporous glass-ceramic coatings and specialist bioactive glass materials for the surface modification of commercial ceramic acetabular cups;
- **RESTORATION** (FP7: 280575): Development of apatite-wollastonite glass systems for use in resorbable ceramic biocomposites for orthopaedic and maxillofacial applications;
- **SCAMP** (Innovate UK: 101227): Development of a fibre drawing tower to produce novel bio-resorbable phosphate-based glass fibres;
- **BioGlaM** (Innovate UK: 101480): Development of bioactive glass materials and additive manufacturing processes capable of building customised 3D glass-metallic composite structures on medical implants to facilitate rapid bone regrowth into implant;
- **FASTIC** (Innovate UK: 101670): Development of novel bioactive glass materials and femto-second laser sintering process parameters to facilitate in-wound construction of customised implants for orthopaedic applications;
- **LUSTRE** (FP7: 324538): Development of laser system & biomaterials to rebuild acid erosion resistant enamel on damaged human teeth.



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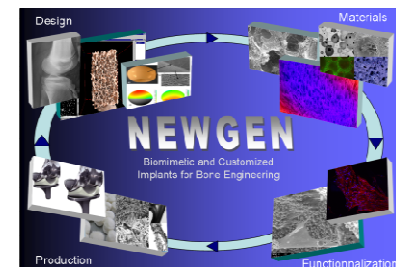


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BIOMATERIALS/NEWGEN TOPICS



- More than 380 years of glass science and technology experience, that help to take innovations from concept through to product commercialisation;
- Bioactive Glass Composition Development and Manufacture;
- Selective Laser Sintering of Glass Materials to Manufacture Scaffolds;
- Accredited Test Capabilities for Chemical Analysis of Biomaterials .



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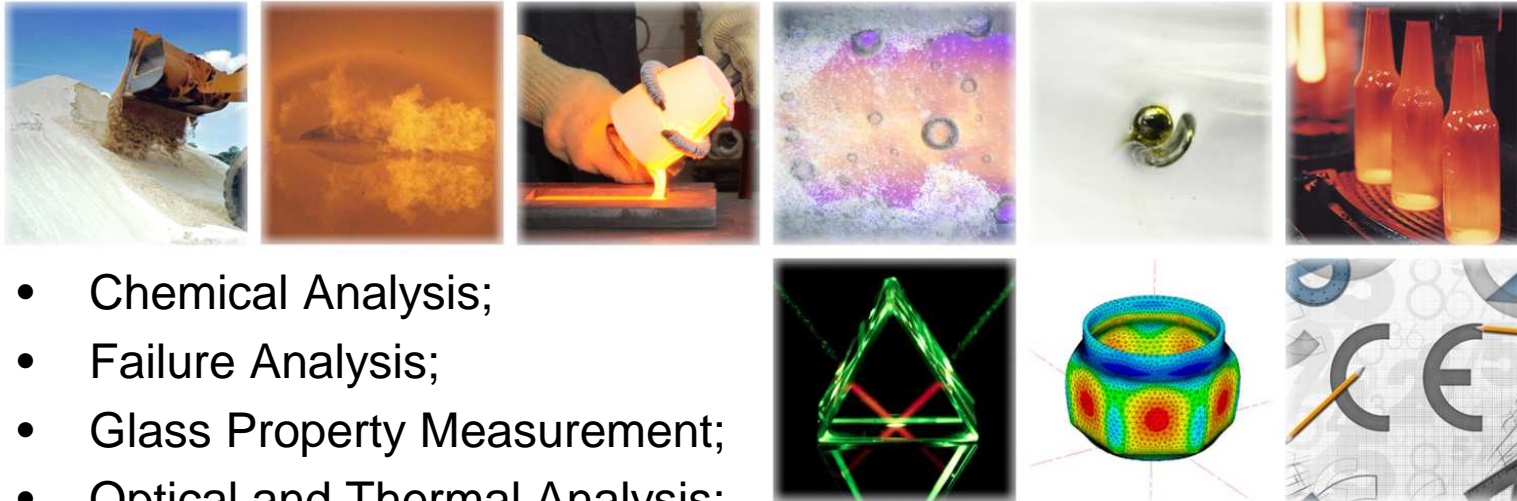
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FACILITIES



GTS

SPECIALIST KNOWLEDGE IN GLASS



- Chemical Analysis;
- Failure Analysis;
- Glass Property Measurement;
- Optical and Thermal Analysis;
- Glass forming;
- Environmental Consultancy and Monitoring;
- Physical and Mechanical Testing;
- Quality Assessment.



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