

## Advanced Materials Research Group project summary

Project Title	Manufacture of bioresorbable composites for bone fixation devices based on poly(lactic) acid and phosphate glass fibres
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Project Summary	Sponsored by EPSRC-Centre for Innovative Mannufacturing in Medical Devices, the project is directed towards the manufacture of effective biocomposites for bone fixation devices that can effectively degrade harmlessly within the body, avoiding the need for a second removal surgery, while locally releasing metallic ions that can stimulate bone formation and vascularization by promoting the cell proliferation and differentiation processes.  To achieve this in the most efficient way, several manufacturing techiniques will be assessed, including extrusion and injection moulding equipment based on the University of Bradford facilities, and proven technologies such as compression moulding (thermo-mechanical processing).