The principal objective of **BioTiNet ITN** is to improve the career perspectives of 18 young researchers/fellows by providing a well-structured research training programme in the field of advanced low rigidity Ti-based materials, involving innovative methods and providing a multidisciplinary and complementary approach.

**BioTiNet** will screen and explore a wide structural spectrum with specific characteristics, balancing the advantages of a reduced Young’s modulus and the best resistance to deformation, which will help relieve problems with stress shielding in orthopaedic implants.

The research program comprises 18 individual research projects, designed to deliver to the young researchers the most relevant state of the art knowledge and expertise in the biomaterials research field for a career development in line with the scientific, industrial and societal needs and challenges.

The research programme of **BioTiNet** is split in 4 work packages (WP) containing 18 different research projects (RP). One separate work-package (WP5) is allocated to the project management and IPR issues and another one (WP6) to training (local & Network-wide).

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**BioTiNet ITN project**

BioTiNet is a Marie Curie Initial Training Network (ITN) for early-stage researchers (ESR) and experienced researchers (ER) funded by the European Commission under the FP7 - 'People' Programme. Duration 01.01.2011 - 31.12.2014 (G.A. no. 264635).

The project provides research and training opportunities for 18 young researchers/fellows in the field of biomedical materials, with special emphasis on the development of advanced low-rigidity Titanium-based structures for orthopaedic use. This involves both multi-disciplinary scientific training, secondments in both academia and industry, and courses in complementary ("soft") skills.

BioTiNet conducts its own research, which addresses highly significant, up-to-date research questions in the area of Materials Science and Engineering, Physics and Chemistry of Nanostructures, Laser-Assisted Rapid Manufacturing, Skeletal Tissue Engineering, Electrochemistry, Surface Science and Microbiology.

This Network comprises 12 Full Partners and 5 Associated Partners from 11 European countries (Germany, France, Belgium, Austria, UK, Poland, Greece, Slovenia, Spain, Switzerland and Sweden).