

13 MSCA-funded PhD positions on the NANOREMEDI-programme in 'Functional Nano-Scaffolds for Regenerative Medicine'

13 ESR PhD positions will become available on the Marie Skłodowska-Curie Doctoral Network NANOREMEDI-programme in 'Functional Nano-Scaffolds for Regenerative Medicine'.

NANOREMEDI stems from six Doctoral Courses/Schools at six beneficiary institutions, providing research and training in the field of nanomaterials for Regenerative Medicine. An active contribution of enterprises in training activities is a relevant feature of the programme.

Beneficiaries (Doctorate Courses/Schools):

- *University of Milan* (Pharmaceutical Sciences), ITALY – Coordinating University;
- *Universitat Politècnica de Catalunya* (Polymers and Biopolymers) SPAIN;
- *The Hebrew University Jerusalem* (School of Chemistry), ISRAEL;
- *Université de Montpellier* (Balard Chemical Sciences doctoral school), FRANCE;
- *University of Pavia* (Bioengineering, Bioinformatics & Health Technologies), ITALY;
- *IC nanoGUNE* (Materials Physics; delivered by University of the Basque Country - Associated Partner linked to NANOGUNE beneficiary), SPAIN.

Associated partners for secondments activities:

- Bayer Health Care Pharmaceuticals – ITALY;
- Edelweiss Connect GMBH – SWITZERLAND;
- Italfarmaco S.p.A. (CHEMI) – ITALY;
- Jacobacci & Partners – ITALY;
- Lynxter -FRANCE;
- Simune Atomistics SL – SPAIN;
- Ponti & Partners, SLP – SPAIN;
- AbMedica – ITALY;
- DeLama – ITALY;
- Officine Innovazione Srl (*Deloitte*) – ITALY;
- Genepep – FRANCE; BioBasic Europe rsl - ITALY

The *scientific approach* proposed by *NanoReMedi* Consortium is strongly multidisciplinary and will involve a number of different state-of-the-art technologies and methodologies. Expected results are:

- Generate tissue engineered vascular grafts (VGs) to replace damaged peripheral arteries
- Study stem-cell based regenerative medicine for bone and cartilage repair
- Evaluate implantation failure of engineered tissues/scaffolds

13 ESR PhD positions are offered by the Consortium related to different and multidisciplinary projects strongly interconnected involving different state-of-the-art technologies and methodologies:

- Computational chemistry;
- Chemical synthesis/peptide synthesis;
- Peptide based Nanomaterials (Soft materials/Hydrogels/Electrospinning) preparation and spectroscopic characterization;
- Production of vein graph;
- 3D-tissue fabrication;
- Biofilm prevention;
- Electrostimulated release of antimicrobial peptides

Each ESR will attend the following training activities: *i)* advanced courses and soft and transferable skill courses provided by University's doctorate courses/schools; *ii)* multidisciplinary courses/Summer delivered by NanoReMedi Network at the general Network Meetings; *iii)* Nine-months secondment at one of the Beneficiary jointly awarding the doctoral degree to improve research methods complementary to those at home institution; *iv)* Three-months secondment at one of the enterprise where ESRs are expected to acquire complementary skills.

List of projects can be found here: <https://www.nanoremedi.eu/esr-projects/>

Eligibility requirement: <https://www.nanoremedi.eu/eligibility-requirements/>

Applications on <https://www.nanoremedi.eu/submit-application/>