



Nanotechnology Masters Courses Directory and Recognition Scheme www.nano.org.uk/nanomasters

Update of the activities of the Institute of Nanotechnology's Education and Training Activities - May 2008

Background:

Many universities are now offering masters courses in nanotechnology, each with a different emphasis. The Institute of Nanotechnology, in collaboration with a consortium of course-providing academics and industry representatives, is engaged in enhancing, supporting and benchmarking the quality of education at the masters' level in nanotechnology through its Nanotechnology Masters Recognition Scheme. The process is being driven by the IoN's NanoMasters Education Advisory Group chaired by Dr. David Carey from Surrey University and deputy chair Dr. Steve Dunn from Cranfield University.

The IoN's NanoMasters Education Sub-Group are actively supporting competence and knowledge-building measures in education and training through the following actions:

- Development of a relational understanding of **benchmarking statements** in engineering, physics, chemistry, pharmacy and management to nanoscience and nanotechnology course content.
- Communication of the **implications of the Bologna Process** for nanoscience and nanotechnology education.
- Supporting the **continuing professional development and training** of scientists and engineers in the emerging field of nanoscience and nanotechnology.
- Providing a platform for sharing experiences and **best practice in global education initiatives**.
- **Disseminating information** on Masters programmes across Europe and beyond.
- **Educational outreach:** supporting open-source educational material on nanoscience and nanotechnologies In collaboration with Sir Harry Kroto's Global Education Outreach in Science Engineering and Technology.
- Encouraging the **adoption of the EU Code of conduct for Responsible Nanoscience and Nanotechnologies Research** by the groups associated with educational programmes.
- **Undertaking a unique Nanotechnology Skills and Training Survey** - The survey identified skills gaps and professional training needs in the emerging field of nanoscience and nanotechnology and offers recommendations to course providers for enhancing courses and course content.

Participating Universities include:

Belgium: KU Leuven, University of Antwerp ; **France:** Université Joseph Fourier – Grenoble, Université de technologie de Troyes ; **Germany:** Technische Universität Dresden, University of Kaiserslautern ; **Italy:** University of Padova, the University Ca Foscari of Venezia, University of Verona ; **Netherlands** University of Twente, University of Leiden ; **Spain** University of Barcelona, Universitat Rovira I Virgili, Universitat Politècnica de Catalunya, Universitat de Girona ; **Sweden:** Chalmers University of Technology ; **UK:** Surrey University, Lancaster University, University of Sheffield, Leeds University, Cranfield University, University of Liverpool, University of Wales Swansea, Heriot-Watt University.

For further information:

Visit: <http://www.nano.org.uk/nanomasters/skillstraining.htm> , or to join the Education Sub- Group

Contact: **Kshitij Aditeya Singh**

Email: kshitij.singh@nano.org.uk

Tel: **+44 (0) 141 303 8444**