

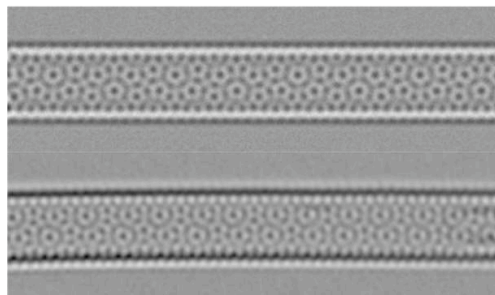
As part of a new project, CIC nanoGUNE Consolider Research Center in Donostia-San Sebastian (Basque Country, Spain) is currently looking for a talented and motivated

Postdoctoral fellow
(Physicist/Materials Scientist/Engineer)

in the field of transmission electron microscopy and related techniques.

CIC nanoGUNE Consolider is a recently established Research & Development Center with the mission of conducting basic and applied world-class research in nanoscience and nanotechnology. The newly initiated electron microscopy facility will start operation this year including a fully equipped FEI Titan 60-300 TEM (X-FEG, MC, imaging Cs-corrector, EDX, bi-prism, Quantum GIF), a FEI Helios NanoLab FIB system and a FEI Quanta 250 FEG ESEM.

The postdoctoral position will be related to exploring the potential of exciting new areas in the field of high-end electron microscopy, FIB-based nanostructure fabrication, as well as TEM sample preparation. As there will be an intensive work on FEI systems and solutions, the candidate will have a unique opportunity to acquire deep knowledge of instrumentation and techniques, as well as to learn diverse aspects of nanotechnology in interaction with nanoGUNE's international research team.



Model, simulated and experimental images of (14,5) SWNT. Experimental image is obtained at Titan 80-300 TEM with imaging Cs-corrector at 80kV accelerating voltage.

Responsibilities of the position will include planning and performing of experiments, processing and evaluating of results, preparing publications and interaction with FEI specialists. The outcome of the work is expected to be in form of application reports as well as scientific publications in internationally leading journals. The position holder will be expected to provide expert advice on the application of FEI instruments, demonstrate their operation and develop further techniques for sample preparation and analysis.

The position requires a PhD in Chemistry, Material Science, Engineering or Physics

strongly related to TEM investigations. The successful candidate will have very substantial experimental TEM expertise, a solid theoretical background in the field of TEM, experience in FIB operation, as well as good communication and writing skills. Proficiency in the following methods is most desirable: CTEM, HRTEM, STEM, SAED and CBED, EDX and EELS analysis, as well as image calculations. Experience in operating of Cs-corrected instruments is a big advantage.

The position is available from May 1st 2010 for duration of two years. Interested applicants should send a letter of application, curriculum vitae, and names and contact information of three references to: nano@nanogune.eu with the subject line: “TEM postdoc application”.

Deadline for application is March 15th, 2010.