



## PhD offer: Nanofluidics in San Sebastián

CIC nanoGUNE in San Sebastián is a new research centre that is specialized in Nanoscale Science. It offers excellent resources and equipment in an international, highly motivating and interdisciplinary environment. Alexander Bittner's group focuses on **self-assembly of biomolecules and functional materials**, and looks for a PhD candidate. Our new group member should hold a degree in **physics** or **chemistry**, with very good grades, (s)he should be self-motivated, a team player, and willing to learn new experimental techniques.

We will study liquids on the extreme nanoscale ( $< 10$  nm). On such small scales, nature provides well-defined structures, e.g. protein tubes. The time scale, the type of liquid flow, and even the condensation of droplets at such structures is an unexplored area of modern nanoscale science – at the same time, exactly these phenomena provide the fundamentals of life.

We will employ many techniques, but especially scanning probe microscopy and electron microscopy. Operation on the extreme nanoscale will mean accessing the technical limits of all methods: At nanoGUNE, latest state of the art equipment, e.g. electron microscopy in water vapour, has been successfully installed and tested. The later stages of the project include simulations based on molecular models of the nanoobjects and of the liquids.

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