The Nanoscience Cooperative Research Center, CIC nanoGUNE, located in Donostia / San Sebastian, Basque Country (Spain), is currently looking for a

Post Doctoral Researcher
to work on
Near-field characterization of antennas and rectennas at IR/THz frequencies, including the development of near- field probes with improved sensitivity to map in-plane electric near-field components.

NanoGUNE is a research center devoted to conducting world-class nanoscience research for a competitive growth of the Basque Country. NanoGUNE is a member of the Basque Research and Technology Alliance (BRTA) and is recognized by the Spanish Research Agency as a María de Maeztu Unit of Excellence.

The **position** is offered in the Nanooptics Group, led by Rainer Hillenbrand. The Nanooptics Group performs experimental and theoretical research in Nanooptics and Nanophotonics, covering both fundamental and applied aspects. Essentially, we develop near-field nanoscopy (scattering-type scanning near-field optical microscopy, s-SNOM) and infrared nanospectroscopy (Fourier transform infrared nanospectroscopy, nano-FTIR), and apply these novel analystical tools in different areas of science and technology. Both techniques offer a wavelength-independent spatial resolution of about 10 to 20 nm spatial resolution at visible, infrared and terahertz frequencies, thus beating the conventional resolution (diffraction) limit by a factor of up to 1000.

The **candidate** will work on the near-field characterization of antennas and rectennas at IR/THz frequencies, including the development of near- field probes with improved sensitivity to map in-plane electric near-field components.

The successful candidate will have a PhD in Physics, and

*Experience in IR and THz scattering-type scanning near-field optical microscopy (s-SNOM)
*Solid background in optics and photonics devices
*Proficiency in spoken and written English
*Availability to start as soon as possible.

We **promote** teamwork in a diverse and inclusive environment and welcome all kinds of applicants regardless of age, disability, gender, nationality, race, religion, or sexual orientation.

The position is expected to start in November 2023 and for a total length of up to 24 months (01/11/2023 - 31/10/2025) in the Nanooptics Group.

Candidates should apply by completing the form below and attaching the following documents:
*A complete CV
*A motivation letter

The deadline for applications is **09/10/2023.**

NOTES:

(i) All applicants will receive an answer after the end of the selection process; but please note that due to the large number of submissions that are expected, we cannot provide individual feedback.

(ii) Additional information about nanoGUNE's commitment towards HR excellence in Research and Gender Equality are available on our website.

(iii) We encourage you to subscribe to our HR mailing list to receive information related to nanoGUNE's open positions and open calls for different training and talent attraction programs.