

Job Title: Research Instrument Engineer/Scientist of the Nanoscience Instrument Development Division
Employer: Institut Català de Nanotecnologia (ICN)
Location: Campus de la UAB, 08193 Bellaterra (Barcelona), Spain
Job Type: Full-time

Job description:

The Nanoscience Instrument Development Division, headed by Dr. Gustavo Ceballos aims to create an integrated scientific and technical platform with a highly qualified multidisciplinary team capable of addressing challenging instrumental projects both for basic nanoscience research as well as for nanotechnological applications. The Division acts as an active collaboration partner for ongoing experimental research efforts within the ICN and neighboring research institutions, developing new leading-edge instruments and techniques.

The successful candidate will work hand in hand with the head of the Division and his/her responsibilities include providing senior scientific and technical leadership for the full life cycle of instrument development. This includes development of innovative measurement concepts and techniques, development of advanced instrument concepts, support of instrument proposals, and coordination of all appropriate engineering activities in the Division. The ICN offers a diverse and dynamic environment with researchers from all disciplines, including but not limited to: physics, chemistry, materials science, nanofabrication, high-speed electronics, molecular biology, nanoscale measurements and manipulation and optical spectroscopy. Within such an environment, a successful candidate must enjoy working in multidisciplinary environments.

Responsibilities associated with the position:

- Providing technical direction, expert advice, and coordination support during the entire life cycle of instrument, subsystem, or component development. This includes exploration of the scientific background of the project, instrument system requirements definition and development; design activities; procurement of resources; instrument or component fabrication, assembly, integration & test activities.
- Conduct the day-to-day running of the Division labs which includes the interaction with the project partners regarding the scientific and technical background of the project, supervising the construction, set up and commissioning of the instruments.
- Expected to be a "hands on" person willing to run tests, construct prototypes, collect data and communicate results to team members and project partners and to be as well a person that likes a challenge and regularly thinks outside the box to solve difficult problems.
- Project planning by building timelines with other team members to track progress, and optimize resources.
- Monitor projects and workloads to meet deadlines and schedules.
- Evaluate & select suppliers for specific instrumentation applications.

a) Qualifications and experience/skills:

- University degree preferably in Physics, Chemistry or Material Science or Instrument Engineering.
- A minimum of 3 years of experience as a Research Engineer/Scientist in scientific or applied research & development projects.
- The candidate shall possess good command of English.
- Candidates must be able to work independently and should have excellent laboratory skills
- Demonstrated capability to work with scientists from disciplines different than own.
- Proactivity, team working and communication skills to train, support and collaborate with the team partners and the project partners.
- Effective verbal and written communication skills necessary to work in a collaborative research environment and to document and present research results.
- Creating and debugging data acquisition software (primarily in LabVIEW)
- Experience with CAD design tools (SolidWorks, Pro/E, AutoCAD).

This is a two year contract. The salary will be commensurate with the candidate's qualifications and experience.

Starting date: April 15, 2012

How to apply

Submit the following application documents to Ms Rosa Juan at: hr@icn.cat :

- Resume or CV
- Summary of the applicant's experience in section a) of this call
- List of three references with contact details.
- Brief letter of motivation.

Closing date for application: March 7, 2012