



# Research Internship: Nanowelding for Biomaterials Design

## Project Description:

Metallic structures are fundamental to our daily lives, from constructing durable buildings to facilitating electrical conductivity in devices. Beyond the types of metallic materials we use, the techniques we employ to join them together are crucial for their effective use and functionality. As many cells in our body are electrically active, the integration of electroconductive metallic structures with cells is becoming increasingly vital for cell biology and biomedicine. However, traditional metal-joining techniques are cell-destructive. This project aims to overcome this challenge by harnessing the potential of nanowelding to enable new avenues for the integration of metallic structures with biological systems.

## Background Requirement:

This internship is suitable for a MSc student or a recent MSc graduate with an academic background in chemistry/chemical engineering, or (bio)materials science/engineering (or related fields). Research experience with nanomaterials and nanoparticles is highly preferred.

**Duration:** 6 to 9 months

**Start date:** Between August and November 2024

➤ *This internship offers financial support with an opportunity for a research assistant role.*

## To Apply:

Are you interested in this position? Please apply by sending your CV and a short motivation letter via email to [vacancy@dibalab.org](mailto:vacancy@dibalab.org)

**Radboudumc**

