**PAT4Nano Research Assistant 1: *Raman analysis of nanosuspensions*.**

**Nanoscale Biophotonics Laboratory**

**NUIG RES 195-22**

Applications are invited from suitably qualified candidates for a full- or part-time fixed term position as a Research Assistant with the Nanoscale Biophotonics Laboratory at the National University of Ireland, Galway.

This position is funded by European Union’s Horizon 2020 research and innovation programme under grant agreement No 862413, PAT4Nano, and is available from 01/10/2022 to contract end date of 30/04/2023.

**Job Description:**

The successful candidate will work under the supervision of Prof. Alan Ryder and postdoctoral researchers to support the work plan approved in PAT4Nano ([www.pat4nano.com](http://www.pat4nano.com) ) in terms of mostly undertaking experimental laboratory work involving Raman spectroscopy. The candidate will assist in the research and technical work, consisting of developing Raman spectroscopy methods for the online analysis of nanosuspensions. The candidate will support the reporting and management of the project and will engage with the dissemination activities at the different regions of the consortium.

**Duties:** The main duties of the post are as follows:

* Undertake Raman and DLS measurements of inorganic and organic nanosuspensions.
* Undertake experimental methods to validate the novel PAT4Nano analytical methods and instrumentation being developed.
* Support the PI on liaising and reporting to the EU Project Officer which includes preparation of periodic scientific and financial reports.
* Deliver presentations and undertake outreach activities relevant to PAT4Nano as required by the PI for the successful delivery of the project.
* Help train undergraduate and visiting student research projects from time to time as required.
* Assist in the management of the NBL laboratory facilities being used for PAT4Nano.
* Maintain and record all experimental data related to the project on a secure backup system. All experimental methodologies should be documented in paper lab notebooks or electronic lab notebooks or reference made to their location.
* Undertake any other activities relevant to the PAT4Nano project as directed by the PI.

**Qualifications/Skills required:**

**Essential Requirements:**

* An honours M.Sc. degree in Chemistry, Pharmacy, or an equivalent discipline.
* Proven experimental experience in the use of Dynamic Light Scattering.
* Proven experimental experience in the use of Raman Spectroscopy.
* Experience in the analysis of Active Pharmaceutical Ingredients (APIs).
* Excellent verbal and written communication skills (English language).

**Desirable Requirements:**

* Experience in the analysis of inorganic nanoparticles.
* Mobility in EU countries to attend meetings and seminars.

**(For research assistant and Part-time posts, please include this clause in the advertisement)**

**Employment permit restrictions apply for this category of post**

**Salary**: €27,380 - €29,360 per annum pro rata for shorter and/or part-time contracts (public sector pay policy rules pertaining to new entrants will apply).

**Start date**: Position is available from 01/10/2022

**Continuing Professional Development/Training**:

Researchers at NUI Galway are encouraged to avail of a range of training and development opportunities designed to support their personal career development plans.

Further information on research and working at NUI Galway is available on [Research at NUI Galway](http://www.nuigalway.ie/our-research/)

For information on moving to Ireland please see [www.euraxess.ie](http://www.euraxess.ie)

Further information about Nanoscale Biophotonics Laboratory is available at [www.nuigalway.ie/nanoscale](http://www.nuigalway.ie/nanoscale)

Informal enquiries concerning the post may be made to Professor Alan G. Ryder

**To Apply:**

Applications to include a covering letter, CV, and the contact details of three referees should be sent, via e-mail (in word or PDF only) to Prof. Alan G. Ryder ([alan.ryder@nuigalway.ie](mailto:alan.ryder@nuigalway.ie) )

Please put reference number **NUIG RES 195-22** in subject line of e-mail application.

**Closing date for receipt of applications is 5.00 pm 20/08/2022**

**Interviews are planned to be held as soon as possible afterwards.**

We reserve the right to re-advertise or extend the closing date for this post.

National University of Ireland, Galway is an equal opportunities employer.

All positions are recruited in line with Open, Transparent, Merit (OTM) and Competency based recruitment

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'NUI Galway provides continuing professional development supports for all researchers seeking to build their own career pathways either within or beyond academia.  Researchers are encouraged to engage with our Researcher Development Centre (RDC) upon commencing employment - see [www.nuigalway.ie/rdc](http://www.nuigalway.ie/rdc) for further information.'

