

**Department of Chemistry  
Indian Institute of Technology Roorkee**

Advt. No. IITR Chemistry/ (PDF), Dated: 15-09-2023

**ADVERTISEMENT FOR POST DOCTORAL FELLOWSHIP POSITION**

Department of Chemistry at the Indian Institute of Technology (IIT) Roorkee invites applications from outstanding and enthusiastic researchers for post doctoral position under the mentorship of Dr. Kalyan K. Sadhu (Associate Professor in Department of Chemistry), focused on ‘**Au doped magnetic Fe<sub>x</sub>O<sub>y</sub> nanoparticles targeting triple-negative breast cancer**’.

The prospective candidate is expected to have a strong background in bio-inspired nanomaterial synthesis with sufficient knowledge in cell culture. Preference will be given to the candidates having hands on experience in nanomaterials and characterization of products by TEM, FE-SEM, DLS, absorbance measurements. Candidate should be passionate about working on cutting edge research leading to high impact products and services. Other research activities may include participating in research discussion with overseas universities and research centers. Apart from research, the candidate may be entrusted with other academic responsibilities as deemed fit by the department.

**Minimum Qualification and Experience:**

The prospective candidate should have Ph.D. in Biotechnology or Chemistry from a premium institute with a consistent good academic record. He/she should have a minimum two SCI publications and a strong knowledge of bio-inspired nanomaterial synthesis in the area. Candidates who have recently submitted their doctoral thesis are also eligible to apply subject to the condition that they will furnish the proof of award of Ph.D. at the time of interview.

**Duration and Fellowship amount:**

The duration of the fellowship will be initially 9 months extendable by one more year. The candidate is expected to join the Department as soon as offer letter has been released. A consolidated fellowship of Rs. 55,000.00 per month and a contingency of Rs. 50,000.00 per annum will be awarded to Post-Doctoral Fellows (PDF). The Fellowship may be terminated by either side by giving one month notice.

**How to Apply:**

Candidates can apply with cover letter (one page), curriculum vitae (maximum 3 page), list of publications (with the most significant publications highlighted), research statement on bio-inspired nanomaterials (maximum 1 page) and e-mail to: [chemt@iitr.ac.in](mailto:chemt@iitr.ac.in)

Head, Department of Chemistry, Indian Institute of Technology Roorkee, Roorkee –247667,  
Phone (office): +91-1332-284381

**Subject line of email: PDF application for project titled ‘Au doped... breast cancer’**

**Last date for online application through email: October 15, 2023**

Notes:

(i) All the postdoctoral fellows (PDF) will be registered as IIT Roorkee students for availing the facilities of accommodation, hospital, medical insurance scheme, computer center, library, sports, etc. They will also be governed by the leave rules as applicable to the post graduate students.

(ii) The candidates called for discussion/interview will meet the Selection Committee via online meeting mode, preferably WebEx.

### **About the Department:**

The Department of Chemistry was established in 1960. It is, since then, engaged in providing highest level and quality of academic education. The main focus of the teaching and research in the department is centered on interdisciplinary themes, which have gained worldwide attention and appreciation. This department features a 27 member faculties with expertise in frontier areas of research. Active research in the areas of asymmetric synthesis, heterocyclic synthesis, organometallic catalysis, organic functional materials, ion selective sensors, polymeric membranes, electro-organic chemistry of nucleosides/nucleotides, nanomaterials, photochemistry, extraction of heavy metals, resolution of therapeutic enantiomers, organotin compounds, protein sequencing, bioinorganic chemistry, chemical biology and theoretical chemistry are being pursued. The faculty members have contributed towards the publication of over several books, research papers and many patents in the last five years (more than 1500 papers in all). There are several research projects sponsored by various government organizations (MHRD, DST, CSIR, AICTE, DRDO, ISRO) and industries.

For more details, please visit: <https://cy.iitr.ac.in>

### **About the Institute:**

The Roorkee College was established in 1847 AD as the First Engineering College in the British Empire. The College was renamed as The Thomason College of Civil Engineering in 1854. It was given the status of University by Act No. IX of 1948 of the United Province (Uttar Pradesh) in recognition of its performance and its potential and keeping in view the needs of post-independent India. Pandit Jawahar Lal Nehru, the first Prime Minister of India, presented the Charter in November 1949 elevating the erstwhile college to the First Engineering University of Independent India. Since its establishment, the University of Roorkee has played a vital role in providing the technical manpower and know-how to the country and in pursuit of research. The University ranked amongst the best technological institutions in the world and has contributed to all sectors of technological development. It has also been considered a trend-setter in the area of education and research in the field of science, technology, and engineering. The University entered 150th year of its existence in one or other form in October 1996. On the 21st September 2001, the University was declared an institute of national importance, by passing a bill in the parliament, changing its status from University of Roorkee to Indian Institute of Technology Roorkee. Thus another jewel was added into the already glittering crown in the History of this Institute.

For more details, please visit: <http://www.iitr.ac.in>

Head

Department of Chemistry