

NATIONAL INSTITUTE OF CHEMISTRY WE ARE HIRING

Post-doc researcher at CTGCT – Center for the Technologies of Gene and Cell Therapy (m/f)

Job responsibilities:

Design and optimise scalable technology platforms and manufacturing processes for next-generation cell and gene therapies.

Lead the technical development of cell engineering protocols and delivery systems, ensuring they are robust and reproducible.

Bridge the gap between discovery science and clinical application by converting bench-side research into industrialised workflows.

Standardise technical protocols and lead the transfer of complex methodologies to the broader CTGCT team and technical staff.

Coordinate cross-functional technical workflows, acting as the lead liaison for project integration with domestic and international partners.

Mentor technical staff on advanced instrumentation, bioprocessing techniques, and troubleshooting specialised equipment.

Develop and implement Quality Management Systems (QMS) and draft comprehensive **GMP (Good Manufacturing Practice)** documentation for clinical-grade production.

Ensure "Quality by Design" (QbD) principles are integrated into all development activities, maintaining strict adherence to cGxP and data integrity standards.

Prepare technical dossiers, CMC (Chemistry, Manufacturing, and Controls) sections for project applications, and high-impact technical publications.

Drive the scaling and translation of CGT prototypes, actively collaborating with industry partners to facilitate commercial or clinical tech-transfer.

Monitor project milestones, providing technical reporting and data-driven insights to ensure development timelines are met.

Communicate technical breakthroughs to stakeholders, representing CTGCT's development capabilities in industry forums and scientific journals.

What we expect:

- PhD in life sciences
- in-depth understanding of immunology, gene and cell therapy, biotechnology, molecular biology, or a related field,
- at least 3 years of postdoctoral research experience is preferred,
- experience in leading research projects and mentoring,
- preference will be given to candidates with experience in:
 - development of vector/delivery systems (e.g., AAV, lentivirus, LNP),
 - treatment of monogenetic diseases (e.g., CRISPR, RNA therapies, etc.),
 - development/automation of bioprocesses for gene and cell therapies,
- ability to integrate knowledge, work in an interdisciplinary environment, and communicate effectively,
- eligibility to act as a principal investigator in Slovenia.

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CTGCT – Centre for Gene and Cell Therapy Technologies is a new strategic unit of the National Institute of Chemistry (www.ki.si), focusing on the development of advanced technologies for treating diseases where conventional medicine is insufficient. At the intersection of science, technology, and medicine, we are creating a research environment where fundamental scientific discoveries lead to solutions for the complex health challenges of the future.

Our activities are based on three pillars:

- development and optimisation of technological platforms for cell and gene therapies (including delivery systems, genetic engineering, cell modification, etc.),
- establishment of conditions for therapeutic cell production in compliance with GMP (GMP-ready laboratories),
- translation of research solutions into clinical practice in cooperation with hospitals, research institutions, and industry.

We are connected with leading international institutions: UCL, UMC Utrecht, Charité Berlin, TU Dresden. We also collaborate with domestic clinical partners, enabling the direct application of research in a real medical environment.

We have access to modern research infrastructure: equipment for cell and molecular biology, flow cytometry, advanced microscopy, genetic analysis, laboratories for working with viral vectors and primary cells, and facilities under construction for the production of advanced therapies in compliance with GMP standards.

Send your application (including a CV and motivation letter, a list of relevant publications and previous projects, contact details of least two referees or recommendation letters) by **February 19, 2026**, inclusive, to the email address zaposlitev@ki.si with the subject line: "D22 –CTGCT : Post-doc researcher"

What we offer:

Duration of employment: Fixed term for the duration of the project, until 31.8.2029

Probationary period: 4 months

Working time: 40 hours/week

**More info: 01/4760 236
(dr. Darja Marolt Presen)**