



Multiple PhD positions in Medicinal Radiochemistry and Imaging Science

The University of Zürich (UZH) is seeking applications from candidates for a PhD in Medicinal Radiochemistry and Imaging Science in the group of Prof. Dr. Jason P. Holland in the Department of Chemistry. www.hollandlab.org.

Project Background

Our research lies at the interface of chemistry, biochemistry, and translational molecular medicine. We design, synthesise, and test the properties of new drugs and imaging agents that have potential applications in diagnosis and therapy of cancers. These PhD studentships will focus on the development of light-induced reactions to make discrete, regio-specific protein-conjugates with controlled stoichiometry. The research is funded by the European Research Council and the UZH.

Responsibilities and Conditions

Several PhD studentships are available with starting dates throughout 2022/23. Successful candidates will conduct chemical synthesis, radiochemistry (with ^{68}Ga , ^{89}Zr , ^{64}Cu , ^{18}F , $^{99\text{m}}\text{Tc}$, ^{111}In , ^{177}Lu , etc), spectroscopy, computational work, and biological studies *in vitro* and *in vivo* to develop new cancer specific probes. The work involves handling human cells, radioactive materials, and animals.

Duration of the PhD position: maximum 4 years, subject to successful evaluation at periodic meetings

Starting dates: Spring 2022 onwards

Deadline for applications: Continuous throughout 2022 until all positions are filled

Academic stipends are commensurate with normal UZH and Swiss National Science Foundation regulations.

Qualifications and Eligibility Criteria

Candidates must hold, or expect to complete, a Master's (MChem, MSc or equivalent) degree in chemistry prior to matriculation at UZH. Successful candidates must be ambitious, creative, and highly motivated, with an excellent background in synthetic organic/inorganic chemistry. Candidates must have an outstanding academic record as evidenced by:

- First class undergraduate/Bachelor's and Master's degrees (or equivalent qualifications) in chemistry
- Experience in synthetic chemistry (master's thesis)
- Academic awards at university level
- Excellent English language skills (written and oral). German is also advantageous.

Applications

Selection will be based solely on academic excellence and research potential. Short-listed applicants will be interviewed either in person or *via* video conference call. Please send applications by E-mail as a **single PDF file** including a cover letter with a brief statement of motivation including past research experience/achievements (max. 2 pages), full CV (résumé), and the names and contact details of two referees. Please apply directly online at <https://jobs.uzh.ch/offene-stellen/multiple-phd-positions-in-medicinal-radiochemistry-and-imaging-science/eab9c385-1bb7-4f69-933c-8970ed63c7b5>. Further details are available from Prof. Jason P. Holland, University of Zurich, Department of Chemistry (jason.holland@chem.uzh.ch).