



Job Vacancy

The University Hospital Essen offers first class medical services in the Ruhr metropolis. Every year, 225.000 patients are treated in 30 clinics, 27 institutes and specialized centers. The over 8.000 employees offer medical care with state-of-the art diagnostics and therapies, which meet highest international standards. Patient care is connected with basic and translational research at an internationally competitive level.

Research Associate (Phd candidate) in data science & biochemistry for metabolic signaling (m/f/d)

(pay grade: EG 13 TV-L)

Work Area: Research Center One Health Ruhr - Department for Metabolism, Senescence and Autophagy

Job ID: 11289

Start Date: Next possible date

Work Scope: part-time / 28,875 h

Contract Type: temporary

Contract duration: 36 Months; in accordance with § 2 (1) WissZeitVG

Your tasks:

As a member of the newly founded department for "Metabolism, Senescence and Autophagy" (Head: Prof. Dr. rer. nat. Kathrin Thedieck, <https://bewerbung-karriere.ume.de/Public/PositionRequest/11203>) at the Research Center One Health Ruhr, the position holder will complement and strengthen the work on the EU-funded BEYOND STRESS project (<https://cordis.europa.eu/project/id/101054429>). BEYOND STRESS investigates the role of stress granule proteins in the mTOR network. The project also addresses the relationship with prognosis, drug response and outcome in breast cancer. Methods comprise biochemical and cell biological techniques and systems analysis of signaling and metabolic networks, from basic mechanisms to the clinic.

The newly founded Research Centre One Health Ruhr - from Molecules to Systems (<https://www.uaruhr.de/researchchallianceruhr/onehealthruhr.html.en>) of the Universities of Duisburg-Essen, Dortmund and Bochum focuses on research into the fundamental mechanisms of health and disease, from the molecular level to higher-level systems. The ecosystem is the context in which we consider the complex interactions between environmental health, animal health and human health in the sense of the "One Health" concept. The "Metabolism, Senescence and Autophagy" department is particularly concerned with the influence of metabolic disruptors on oncogenic mechanisms and therapy response.

The Faculty of Medicine enjoys an excellent reputation - in the clinical and translational fields as well as in basic research. The key research areas "Oncology", "Cardiovascular Diseases", "Immunology and Infectiology", "Translational Neuro- and Behavioural Sciences" and "Transplantation" are internationally established. We offer an excellent scientific environment and attractive opportunities for collaboration with renowned



international, national and regional partners. As a site of the German Consortium for Translational Cancer Research (DKTK, <https://dktk.dkfz.de/en/sites/essen-duesseldorf>) and the National Centre for Tumour Research (NCT, <https://nct.dkfz.de/en/sites.html>) we offer a network of excellent partners in cancer research. Research in the field of PI3K-mTOR signaling with a focus on stress granule proteins and RNA metabolism in tumors (<https://cordis.europa.eu/project/id/101054429/de>)

- Methods encompass systems approaches including mathematical modeling and multi-omics data integration and their experimental application in the area of signal transduction through the PI3K-mTOR network
- Education and training towards obtaining your Ph.D.
- Publication activities, incl. participation in conferences and congresses, writing publications

Your profile:

- Completed studies (diploma or master's degree) in bioinformatics, chemistry, biology, biochemistry or a comparable discipline with very good degrees
- Focus on biochemistry, signaling and/or metabolism
- Knowledge in the field of data science and modeling
- Desired methodological skills:
 - cell culture and biochemical methods
 - programming languages e.g. C/C++, Python, R, Bash
 - experience in data integration for multi-omics analysis and/or the use and programming of high-performance computers (high-performance computing) is a plus
- Fluent in written and spoken English
- Strong communication skills
- Self-motivated
- Team player
- Self-organization

Look forward to:

- A diverse, interdisciplinary and international team conducting top-level research in the mTOR field with high ranking publications and competitive funding
- Regular retreats and the opportunity to take part in conferences
- Childcare in the in-house daycare centre in the same building
- An environment characterised by mutual respect
- The opportunity to realise your own ideas
- Short decision-making processes
- A diverse, interdisciplinary and international team
- Worldwide excellent project partners
- A secure job in the public service of the state of NRW
- Fair payment in accordance with the collective wage agreement (TV-L) incl. annual bonus payment and supplementary company pension scheme
- 30 days of vacation per calendar year (for a full-time position)
- Interdisciplinary work with colleagues from other departments



- Working with modern equipment and certified quality standards
- Family-friendly corporate culture, e.g. company daycare center, vacation program for school-age children, advice and support from the Employee Service Office in all life situations
- Wide range of training and continuing education opportunities, e.g. at the Training Academy of UK Essen
- Health Management, e.g. company integration management, vaccinations, promotion of sports activities
- Attractive fringe benefits, e.g. reduced-price canteen meals, community events, accommodation in student residences

General conditions:

- The pay grade classification depends on the personal and collective legal prerequisites.
- The University Hospital Essen is an equal opportunity employer. Female scientists are particularly encouraged to apply.
- The participation in secondary employment depends on the „Hochschulnebenbeschäftigungsverordnung“ of North-Rhine Westphalia.
- Disabled applicants will be preferentially considered in case of equivalent qualification.
- The position is also available as part-time employment.“

You will find detailed information on the job advertisement and contact persons behind the button - Apply now. <https://karriere.ume.de/job-finder/stelle/11289>

We use your data exclusively for application purposes in accordance with the applicable data protection regulations. Further information can be found in the privacy statement on our homepage at: www.uk-essen.de.