

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.

PhD student (m/f/d)

(pay grade: EG 13 TV-L)

Work Area: Department of Hematology and Stem Cell Transplantation

Job ID: 12140

Start Date: Next possible date

Work Scope: part-time employment / 25,025 h

Contract Type: temporary

Contract duration: 48 months from the start of the project; in accordance with § 2 (2)

WissZeitVG for the duration of the project

Your tasks:

- Liquid biopsy library preparation and computational analysis
- Planning, conduction, and analysis of in vitro experiments
- CRISPR screens
- Flow cytometric analyses
- Bulk and single-cell transcriptomic analyses
- Supervision of undergraduate students
- Bioinformatic analyses of large genomic and transcriptomic datasets
- Presentation of scientific results at international meetings

Your profile:

- Completed diploma or master's degree in natural sciences
- Ability to work effectively within a collaborative team environment
- Self-motivation, creativity and proactivity
- Fluency in English; basic knowledge of German is desirable
- A strong background in computational biology or bioinformatics
- Experience in cancer or immunology research
- Proficiency in standard laboratory methods such as PCR, immunoblotting, and flow cytometry
- Experience with in vitro cell culture and CRISPR screens
- Computational skills (e.g., R, Python)
- Expertise in genomic or single-cell transcriptomic analyses
- Experience with spatial transcriptomics or multidimensional imaging data is an advantage

Look forward to:

- Who we are: The 'Alig lab' is a research lab in the Department of Hematology and Stem Cell Transplantation, funded by the Max-Eder Program of the German Cancer Aid, PL Dr. Stefan Alig
- Our focus: Advancing personalized oncology by integrating cutting-edge genomic technologies into the study of malignant lymphomas. Our lab has contributed significantly to this field, with recent publications including Alig, Nature 2024; Sworder, Kurtz & Alig, Cancer Cell 2023; Mutter & Alig, JCO 2023; Alig, JCO 2021.
- Our goals include:
 - Harnessing the potential of circulating tumor DNA (ctDNA) and other noninvasive biomarkers to improve disease monitoring, early detection, and therapeutic decision-making.
 - Exploring the molecular and clinical diversity of malignant lymphomas to uncover new insights into disease biology.
 - Identifying prognostic and predictive biomarkers to refine personalized treatment strategies.
 - Translating research findings into innovative approaches to enhance patient outcomes and quality of life.
- Project: "Molecular profiling of B-cell lymphomas"
- An internationally visible, friendly, collaborative, and motivated work environment
- The freedom to realize your own research ideas
- Access to cutting-edge technologies
- Great opportunities for scientific collaborations with leading international researchers
- Support in obtaining the necessary qualifications for an academic career
- 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.
- Disabled applicants will be preferentially considered in case of equivalent qualification.



- In the case of a written application, please submit your documents only as uncertified copies and do not use folders, as these will not be returned. Data protection-compliant destruction is guaranteed.
- A certificate according to §23a Infection Protection Act (IfSG) regarding the vaccination and serostatus of measles is required.

Contact person and further information about the position:

Dr. Stefan Alig, Stefan.alig@uk-essen.de

You will find detailed information on the job advertisement and contact persons behind the button - Apply now:

<https://bewerbung-karriere.ume.de/Vacancies/12140/Application/CheckLogin/1>

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.