UNIVERSITETET I BERGEN

**University of Bergen**
**Department of Clinical Science**

**Jobbnorge ID:** 291759
**Deadline:** 2/22/2026
**Website:** https://www.uib.no/om/84775/ledige-stillinger-ved-uib
**Scope:** Fulltime
**Duration:** Fixed Term

PhD position available at Ludwig Maximilians University Hospital Munich, Germany (ENDOTRAIN) (DC5)

# PhD position:Wearables & Biosensors- Primary Aldosteronism - Out-of-Hospital Diagnosis & Monitoring

## PhD position

There is a vacancy for a PhD Research Fellow in **Wearables and Biosensors in Out-of-Hospital Diagnosis and Monitoring of Primary Aldosteronism (DC5)** at the Ludwig Maximilians University Hospital Munich, Germany. The position is funded by the European Commission through the MSCA Doctoral Network **Endotrain** (Grant No: 101227148) and coordinated by the University of Bergen, Norway.

**Supervisors:** **Prof. Martin Reincke**, **Prof. Nicole Reisch**

**Location:** Ludwig Maximilians University Hospital Munich, Germany

**Duration:** 3 years (with possibility of extension)

**Start date:** August 2026 at latest

The students will be enrolled in the structured PhD programme at the LMU Ph.D. Medical Research - Faculty of Medicine - LMU Munich

**This position is part of 19 PhD Fellowships available in Digital Endocrinology in the Marie Skłodowska-Curie Doctoral Network (ENDOTRAIN).**

**Join Europe's first doctoral network in digital endocrinology - integrating AI, sensor technology, omics, and clinical medicine to transform diagnosis and treatment of adrenal diseases.**

Digital medicine is entering a new era where human "digital twins" and sensor-based monitoring allow personalised diagnosis and treatment. ENDOTRAIN will train a new generation of interdisciplinary experts who merge clinical endocrinology, AI, data science, engineering, ethics and law into an integrated field of **digital endocrinology**. The programme focuses on adrenal disorders as a case study for advancing digital health in Europe.

## About the PhD position :

This project is part of **Work Package 1: Hormone Dynamics** of the ENDOTRAIN network and focuses on optimizing the diagnosis of primary aldosteronism using real-world, continuous physiological and hormonal data streams based on chronobiologic steroid rhythmicity and environmental challenges (i.e. salt intake).

## About the project/work tasks:

Key activities:

- Leverage dynamic hormone profiling (e.g., U-RHYTHM) and next-generation biosensors for ambulatory assessment in patients with primary aldosteronism
- Conduct structured clinical phenotyping including endocrine diagnostics and monitoring parameters during low and high salt intake and during physiologic stressors of daily life
- Integrate wearable-derived physiological data (e.g., activity, heart rate, temperature) with endocrine test outcomes to identify diagnostic patterns
- Contribute to multimodal datasets feeding into the broader development of digital diagnostic tools in endocrinology.

**Research Fields:**

Endocrinology, Chronobiology, Digital Health, Medical Sensors, Systems Physiology, Internal Medicine

**Secondments:**

- University of Ulm (D): To work with algorithms for wearable data
- University of Manchester (UK): To learn mathematical modelling of hormone rhythms.

- University of Bristol (UK): To learn mathematical modelling of hormone rhythm

## Qualifications and personal qualities:

We are seeking highly motivated candidates with:

- A Master's degree (MSc or equivalent) in Medicine, Biomedical Sciences, Physiology, Bioengineering, or a related field
- Strong interest in translational endocrinology and digital health technologies
- Basic programming or data science skills (R, Python) and interest in wearable data analysis are an asset
- Excellent command of written and spoken English
- Good communication skills and capacity for interdisciplinary collaboration

Applicants must fulfill eligibility criteria for LMU Munich-based PhD positions and be willing to participate in training activities across Europe.

For further details, please visit our webpages: Wearables and Biosensors in Out-of-Hospital Diagnosis and Monitoring of Primary Aldosteronism (DC5) and the programme webpage: Endotrain Doctoral Training Network | UiB

## We can offer:

- Competitive salary according to German Research Foundation (DFG) regulations - "E13 Stufe 2"
- Full social security coverage in Germany
- Travel and secondment budget included
- Opportunities for international networking, industry exposure, and career development

## Your application must include:

- Your application **must include** the mandatory attachments from the ENDOTRAIN webpages - including
- 1. Application form
- 2. CV
- 3. Mobility declaration
- 4. Motivation Letter

**Eligibility (MSCA Doctoral Network rules)**

- Applicants can be of any nationality.
- Must not have resided or carried out a main activity in the host country for more than 12 months in the past 36 months before start of the PhD.
- Must hold a master's degree (or equivalent) enabling doctoral studies.
- Must not already hold a doctoral degree.
- English proficiency required - transcripts of diplomas in English must be uploaded in Jobbnorge.

In the "Jobbnorge-CV": Only fill in the basics of your 1) personal details, 2) short information about your degrees (in the field "Education / academic qualifications") - in order to minimise repetition with the CV attachment.

It is a condition of employment that the master's degree has been awarded (documentation must be provided). If you have not yet completed your master's degree, you can apply provided completion of the final master exam before the position start date. Please submit a statement from your institution confirming the expected date of award of your master's degree.

For HR related questions contact the host institutions for the position you are applying (see link for the specific position)

## General information:

Contact:

Informal inquiries may be directed to Prof. Nicole Reisch and Prof. Martin Reincke (Nicole.reisch@med.uni-muenchen.de and martin.reincke@med.uni-muenchen.de)

For questions about the ENDOTRAIN programme, please contact Programme Manager Elizabeth Farmer (elizabeth.farmer@uib.no)

For more information regarding technical matters connected to the application process, please contact HR Adviser Selina Sia Hausberg

**Diversity and Inclusion**

MSCA -Endotrain has a gender equality plan where gender balance among employees is therefore a goal. We encourage women to apply. If multiple applicants have approximately equivalent qualifications, the rules pertaining to moderate gender quotas shall apply. It is also a goal to recruit people with immigrant backgrounds. People with immigrant backgrounds and people with disabilities are encouraged to apply for the position.

Information about applicants may be made public even if the applicant has asked not to be named on the list of persons who have applied. The applicant must be notified if the request to be omitted is not met.

## About MSCA Doctoral Networks

The MSCA Doctoral Networks aim to train creative, entrepreneurial, innovative and resilient doctoral candidates, able to face current and future challenges and to convert knowledge and ideas into products and services for economic and social benefit. The MSCA Doctoral Networks raise the attractiveness and excellence of doctoral training in Europe. Read More about the MSCA Doctoral Networks.

## About LMU Munich

Ludwig-Maximilians-Universität München is a leading research university in Europe. Since its founding in 1472 it has been committed to the highest international standards of excellence in research and teaching.

**About the Faculty of Medicine at LMU**

The Faculty of Medicine and the LMU Hospital are among the strongest research centers in university medicine in Europe and are characterized by excellent research and teaching.

You can read more about the Faculty here

## Additional information

### Place of service:

Ludwig Maximilians University Hospital Munich, Germany