

# Job description

Position as Clinical Professor in Nuclear Medicine

Department of Clinical Research, Faculty of Health  
Sciences, University of Southern Denmark and  
Department of Nuclear Medicine, Odense University  
Hospital

September 2023

## 1. The vacant position

The vacant position is a combined post as a professor in the Research Unit of Clinical Physiology and Nuclear Medicine, Department of Clinical Research, SDU, and as a consultant in the Department of Nuclear Medicine, OUH.

The time is allocated 50% to university (professor) and 50% to clinical (consultant) duties.

The role of Head of Research at the Research Unit of Clinical Physiology and Nuclear Medicine is associated with this Professorship.

If the applicant is interested in strategic research management and is qualified for the role, he/she can be appointed Head of Research. The applicants' considerations regarding this role should therefore be included in the application.

The employment is limited to five years with the possibility of prolongation.

### 1.2. Qualifications and expertise

The applicant must be qualified as a consultant and a specialist in clinical physiology and nuclear medicine physician with a special interest and documented experience in clinical diagnostic cancer research focusing on PET imaging. Furthermore, the applicant is expected to have experience with research leadership and collaboration with authorities and an understanding of and experience with the clinical environment in a hospital department.

The applicant must be well qualified and have a strong research profile in the abovementioned areas. Commitment to teaching and the ability to lead a research group, including experience with attaining funding, and supervision of master's students, PhD students, and postdocs, are required.

The applicant's ability to conduct original scientific research at an international level in the field of diagnostic clinical research related to cancer staging and response evaluation will be highly valued. The research should focus on its clinical impact on patient management.

Additionally, as Head of Research, we expect you to have the following:

- an interest in and experience with research management, governance, and administration
- the ambition to develop and improve research possibilities and research quality at the Research Unit of Clinical Physiology and Nuclear Medicine, e.g. by investigating methodological aspects of scientific work
- the ability to encourage and support students and other researchers working in the field of clinical physiology, nuclear medicine, and molecular imaging, including pre-clinical research
- the ability to organise teaching at the undergraduate level and support others in their supervision at the graduate and post-graduate level.

The applicant must submit the following documents in order to be considered for the position:

- An application
- A detailed CV
- Degree certificates (including PhD-diploma) (combined as one single PDF file)

- As to the post as a consultant: Information on the applicant's skills as concerns "[The Seven Roles of Physicians](#)" (combined as one single PDF file)
- A [teaching portfolio](#) that details the candidate's prior teaching experience, teaching skills, and teaching philosophy
- A research plan which details the candidate's ideas and plans for her/his future research work
- (References)
- A complete and numbered list of publications
- Ten scientific peer-reviewed publications the candidate considers most important for the position. Please notice that one PDF- or docx.- file must be attached for each publication

Furthermore, the candidate must have a successful record in obtaining research funding, experience in practice with international research collaboration, experience as a research leader, and effective oral, written, and verbal communication and interpersonal skills. Documented experience as Head of Research, head of large research projects, head of teaching, and other administrative jobs will be an advantage. The applicant is expected to be qualified as an associate professor or equivalent in academic teaching.

### **1.2.1. Obligations**

The professor's primary obligations will include:

- Consolidating and developing the functions of the Research Unit of Clinical Physiology and Nuclear Medicine
- Conducting research related to clinical diagnostics in cancer and molecular imaging
- Investigating various PET tracers for cancer diagnostics
- Conducting research on response evaluation to cancer treatments
- Providing support for research in the development of radioligands, their clinical translation, and theragnostics.

The clinical professor handles qualified supervision, teaching, and/or research tasks. The position also includes exams for medical students and students in clinical biomechanics at hospitals handling training in clinical subject areas, and supervision at postgraduate education.

#### **1.2.1.1. Research**

The professor is expected to contribute to developing the department's research strategy and profile, focusing on timely and relevant multicentre clinical trials that assess the impact of molecular imaging, translational research, and theragnostics, and patient-centred research that improves clinical practice and patient pathways. The professor should also increase research activity, establish collaborations with other researchers at OUH and SDU, and participate in the scientific development of the field nationally and internationally. Collaborating with patient representatives and profiling the field in the public eye are also important tasks. Additionally, the professor is expected to supervise post-docs, PhD students, and pre-graduate students.

### **1.2.1.2. Teaching**

The professor is expected to engage in teaching (including an obligation in terms of examination) at the Faculty of Health Sciences.

#### **1.2.1.2.1. Planning**

The Head of Research is responsible for planning the teaching within the department; the professor is expected to plan his/her teaching.

### **1.2.2. Other obligations**

The applicant is also expected to front diagnostic and theragnostic cancer research in the public debate. Moreover, the applicant is expected to perform public duties, *i.e.* charing commissions and boards, etc.

### **1.2.3. Management and administration**

The professor is expected to:

- Perform evaluations of other researchers at the Faculty of Health Sciences
- Participate in and chair committees at the Faculty of Health Sciences and other universities.

## **1.3. University position**

The position as a professor is affiliated with the [Research Unit of Clinical Physiology and Nuclear Medicine](#) at the [Department of Clinical Research at SDU](#).

### **1.3.1. Reference**

The professor refers to departmental management. Regarding research and teaching, *i.e.* university aspects, the professor refers to the Head of the Department of Clinical Research through the Head of Research of the Research Unit of Clinical Physiology and Nuclear Medicine. Organisational matters in relation to research projects at Odense University Hospital have to be coordinated with the research committee in the department. The professor will be a member of this group.

Employment as a professor requires successful evaluation by an expert panel consisting of a professor from the Department of Clinical Research, taking on the role of chairperson, and two external professors.

## **2. Odense University Hospital (OUH)**

OUH is one of Denmark's largest hospitals and the only one having all medical specialities collected under one roof.

The hospital comprises the units in Odense, Svendborg, and Nyborg, sharing the same board of directors. In total, the staff comprises about 11,000 people. (See [Key Figures](#).)

A new university hospital is under construction and is expected to be finished in 2025/2026. The new hospital will be located adjacent to the current main campus of the University of Southern Denmark. This co-location of the two institutions is unique in Europe and will facilitate the cooperation between the clinical departments and faculties of the University of Southern Denmark.

Further information:

- [OUH's website](#)
- [OUH's organisation](#)
- [Research Strategy 2021 - 2025](#)

### 3. The Hospital Department

Please refer to [the Department of Nuclear Medicine, OUH](#), for more information.

#### 3.2. Clinical Specialties and Expertise

The Department of Nuclear Medicine, OUH, provides services within functional tests and molecular imaging of most tissues and organs. Services comprise diagnosis, staging, response evaluation of treatment, and prognosis assessment in various diseases. Moreover, the department is responsible for radioiodine treatment of non-toxic and toxic goitre, thyroid cancers, and Radium-223 treatment of bone metastatic prostate cancer.

Geographically, the department provides services at Odense University Hospital in Odense.

The department is involved in several multidisciplinary services:

- Multidisciplinary team conferences in several cancer diseases
- Multidisciplinary team conferences in some infectious diseases
- National multidisciplinary team conferences in paediatric diseases.

#### 3.3. PREMIO frontline centre

The frontline centre PREMIO (Personalized Response Monitoring in Oncology) has been hosted in the Department of Clinical Physiology and Nuclear Medicine at OUH since 2018. PREMIO aims to develop and validate molecular and genomic technologies for improved response monitoring in cancer diseases. The goal is to fill the gap between precision medicine and current monitoring methods. PREMIO focuses on breast cancer and aims to engage patients in research conduction.

The complexity of response monitoring requires an interdisciplinary centre with complementary competencies. PREMIO is an integrated part of the Department of Nuclear Medicine at OUH. It has close collaboration with the staff collecting data in the Departments of Oncology, Radiology, Clinical Pathology, and Clinical Genetics.

PREMIO's research has influenced national and international clinical oncology and nuclear medicine guidelines for staging and monitoring the response of breast cancer patients.

#### 3.4. Management and organisation of the department

The department's medical staff comprises eight consultants, five senior registrars, and seven junior doctors.

The department is, as of 1<sup>st</sup> August 2023, managed by Head Consultant Søren Hess and Head Technician Marianne Pedersen. Each sub-speciality is headed by a consultant and/or a chief technician. Radiochemistry is headed by a chief chemist and physics by a chief physicist.

The research group in the Department of Nuclear Medicine is a staff function of the departmental management. In addition to aspects of research, it comprises general departmental functions related to quality assurance and patient safety. The secretarial staff refers to and is a part of the general administrative staff of the department.

### **3.5. Catchment area and regional functions**

In accordance with the plans issued by the Danish National Board of Health, the department provides all services at the local level (population of approximately 220,000) and all services at the regional level (population of approximately 1.2 million).

### **3.6. Highly specialised functions**

The Region's highly specialised services in the field of nuclear medicine are situated in Odense, and the department provides the production of radioactively labelled drugs in a cyclotron unit with an associated radiochemistry function.

### **3.7. Teaching**

The department provides teaching and training to nuclear medicine personnel. The target group is nuclear medicine physicians, medical students, technician/radiographer students, secretaries, PhD students, and postdocs.

### **3.8. Research**

The research unit at the Department of Nuclear Medicine at OUH conducts high-quality clinical and basic research in collaboration with national and international partners. The unit focuses on six main areas: PET/MR, cancer, brain research, cardiovascular diseases, special topics, and preclinical research. The department has a cellular laboratory and a Preclinical Imaging Core Facility. All research aims to improve patient treatment.

The Research Unit of Clinical Physiology and Nuclear Medicine is headed by associate professor Malene Grubbe Hildebrandt. It comprises a professor in biostatistics, a part-time professor, four adjunct professors, seven assistant/associate professors, three postdocs, and seven PhD students, as well as a continuous flow of master students. The Research Unit of Clinical Physiology and Nuclear Medicine collaborates with several other units and departments at OUH, SDU, and regional hospitals and has national and international contacts.

Please refer to the [Research Unit of Clinical Physiology and Nuclear Medicine](#) for more information.

## **4. Faculty of Health Science**

The [Faculty of Health Science](#) is one of five faculties at the University of Southern Denmark. The faculty offers a grand variety of bachelor- and master's programs. (For further details, please see [Programmes](#).)

## **5. Department of Clinical Research**

The [Department of Clinical Research](#) comprises [>45 research units](#) based on departments at Odense University Hospital and the Mental Health Services in the Region of Southern Denmark. (For more information about the department's research, please see [SDU's Research Portal](#).)

The department staffs teach at all the programmes offered by the Faculty of Health Sciences, primarily in medicine. (Read more about the department and its key figures [here](#).)

Professor Kirsten Ohm Kyvik, MD, PhD, MPM, heads the department.

## **6. Living and working in Denmark**

The [International Staff Office](#) (ISO) at SDU provides a grand variety of services for new employees, guests, and people considering applying for a job at the University of Southern Denmark.